

东亚丙烯酸产品综合资料

一、丙烯酸单体 AcrylicMonomers

1、丙烯酸，丙烯酸酯 Acrylic Acid,Acrylic Esters

丙烯酸与丙烯酸酯是包含有乙烯基与羧基的单体，具有很高的反应性。因其能作为适合于环境的高机能聚合物和乳胶漆的材料，而受到国际上的广泛关注。

ACRYLIC ACID and ACRYLIC ESTERS, which can be dividedinto vinyl and carboxyl groups, are drawing widespread attention as anenvironmentally sound raw material for producing high-function polymers and asa soluble base for emulsion paints.

2、丙烯酸 Acrylic Acid

丙烯酸主要用于高吸水性树脂、粘度调节剂、高分子凝聚剂的原材料。此外丙烯酸和丙烯酸酯、丙烯腈、丁二烯、乙酸乙烯酯的共聚物可以在纤维加工等多个领域中使用。

Acrylic acid is used as the raw material for superabsorbentpolymers, viscosity modifiers, flocculants and so on, among its widepossibilities. Copolymers of acrylic acid, produced for example using acrylicesters, acrylonitriles, butadienes and vinyl acetates, are used for non-wovenfabrics, binders for flocky processing and modifiers for fabrics.

3、丙烯酸酯 AcrylicAcid

东亚合成拥有丙烯酸甲酯、丙烯酸乙酯、丁基、丙烯酸-2-乙基酯这四种丙烯酸酯及数种特殊丙烯酸酯。这些丙烯酸酯单体和共聚物在透明性、光泽、粘着性、耐老化性、柔软性等多个方面具有优良的性质，适合用于丙烯酸纤维、纤维加工、涂料、粘着剂、纸加工、皮革技工、合成橡胶等领域。

Acrylicesters, which include methyl acrylate,ethylacrylate, butyl acrylate and2-ethylhexyl acrylate, are producedby means of esterfication of acrylic acid, and because of their significantperformance such astransparency,gloss, adhesive property and flexibility, the potential applications of acrylicesters are increasing remarkably.Among major applications of acrylic esters are as raw material for acrylicfiber, textile finishes、paints、adhesives、paper finishes、leather finishes and synthetic rubber.

产品名称 Product name	化学式 Chemical structure	纯度 Purity wt%	比重 Specific gravity 20/4℃	酸度 Acidity wt%	水分 Water wt%	色调 Color APHA	聚合抑制剂 Inhibitor (MEHQ)ppm
丙烯酸 Acrylic Acid	CH2=CHCOOH	99.0min.	—	—	0.3max	20max	200±20
		用途：吸水性树脂（SAP）、粘度调节剂（Viscosity modifiers）、高分子凝聚剂（Flocculants）、光硬化树脂（Photo-curing resin）					
80%丙烯酸 80% Acrylic Acid	CH2=CHCOOH	99.0min.	—	—	20max	20max	160±20
		用途：吸水性树脂（SAP）、粘度调节剂（Viscosity modifiers）、高分子凝聚剂（Flocculants）、光硬化树脂（Photo-curing resin）					
丙烯酸甲酯 Methyl acrylate	CH2=CHCOOCH3	99.5min.	0.954-0.958	0.005max.	0.05max.	10max	15 ± 5
		用途：丙烯酸纤维、（Acrylic fiber）、纤维加工（Textile finishes）、涂料（Paint）、皮革加工（Leather）、纸加工（Paper）					
丙烯酸乙酯 Ethyl acrylate	CH2=CHCOOC2H5	99.5min.	0.920-0.924	0.005max.	0.05max.	10max	15 ± 5
		用途：纤维加工（Textile finishes）、涂料（Paint）					
丙烯酸丁基 Butyl acrylate	CH2=CHCOOC4H9	99.5min.	0.896-0.901	0.005max.	0.05max.	10max	15 ± 5
		用途：纤维加工（Textile finishes）、涂料（Paint）、纸加工（Paper）、粘着剂（Adhesives）、皮革（Leather）、橡胶（Rubber）					
丙烯酸-2-乙基酯 2-Ethylhexyl acrylate	CH2=CHCOOCH2CH(C2H5)(CH2)3CH3	99.5min.	0.882-0.888	0.005max.	0.05max.	10max	15 ± 5
		用途：涂料（Paint）、粘着剂（Adhesives）、橡胶（Rubber）、建筑材料（Construction materials）					
异丁酯 Iso-Butyl acrylate	CH2=CHCOOCH2CH(CH3)2	99.5min.	0.887-0.892	0.005max.	0.05max.	10max	100±20
		用途：涂料（Paint）、粘着剂（Adhesives）、树脂改良剂（Resin improvement）					
ACRYCS C-1 丙烯酸-2-甲氧基乙酯 2-Methoxyethyl acrylate	CH2=CHCOOCH2CH2OCH3	99.0min.	1.013-1.019	0.01max.	0.1max.	20max.	100±10
		用途：粘着剂（Adhesives）、树脂改良剂（Resin improvement）、橡胶（Rubber）					
ACRYCS HEA 丙烯酸 2-乙基己酯 2-Hydoroxyethyl acrylate	CH2=CHCOOCH2CH2OH	98.0min.	1.11	1max.	1max.	50max.	300±30
		用途：纤维加工（Textile finishes）、热固性涂料（Thermosetting paint）、粘着剂（Adhesives）					
ACRYCS CHA 2-丙烯酸环己基酯 Cyclohexyl acrylate	CH2=CHCOO-C6H11	99.0min.	0.975-0.985	0.03max.	0.1max.	20max.	50±10
		用途：涂料（Paint）、涂层（Coating）					
ARON DA 丙烯酸二甲氨基乙酯 Dimethyaminoethyl acrylate	CH2=CHCOOCH2CH2N(CH3)2	98.0min.	—	—	0.05max.	40max.	2000±200
		用途：高分子凝聚剂（Flocculants）、粘着剂（Adhesives）、涂料（Paint）、阻留剂（Retention aid）					

二、丙烯酸类特殊单体 Special Acrylic Monomers

1、ARONIX

ARONIX 是丙烯酸特殊单体与低聚物的商品名称。分为特殊丙烯酸酯、聚氨酯丙烯酸酯 及聚酯丙烯酸酯 三种。可使用一种或结合多种 ARONIX 到 UV 墨水、UV 涂料、UV 粘着剂等领域。它还有良好的反应性，可用作架接剂、改良剂。

ARONIX is thebrand name for specific acrylic monomers and oligomers produced by TOAGOSEI.ARONIX is classified roughly into three grades-special acrylates,urethaneacrylates and polyester acrylates. ARONIX is commonly used for UV-curing inks,UV-curing paints, and UV-curing adhesives through single or combined uses of eachgrade. High reactive disposition of ARONIX can be applied for other practicalapplications.

型号 Grade	化合物名称 Chemical Nomenclature	外观 Appearance	粘度 [mPas] Viscosity	官能基数 Function Ig	固化物 of cured film Tg
M-113	壬基酚聚氧乙烯醚丙烯酸酯 Nonylphenol polyethoxylate acrylate	淡黄色液体 Pale yellow liquid	85~110/25 ℃	1	-20
	特征: 固化物 Tg 值低 (-20℃) Low curing Tg				
M-211B (A-BPE4)	双酚 A 聚氧乙烯醚丙烯酸酯 Bisphenol-A polyethoxylate diacrylate	淡黄色液体 Pale yellow liquid	950~1,350/25 ℃	2	75
	特征: 固化速度快、皮肤刺激少、硬度高。 High curability, Low irritation, High curing hardness				
M-220 (TPGDA)	丙二醇二丙烯酸酯 Tripropyleneglycol diacrylate	淡黄色液体或褐色液体 Pale yellow or light brown liquid	8~16/25 ℃	2	90
	特征: 皮肤刺激少、粘度低 Very low irritation, Low viscosity				
M-305 (PETA)	季戊四醇三丙烯酸酯 Pentaerythritol triacrylate	淡黄色液体 Pale yellow liquid	180~800/25 ℃	3	> 250
	特征: 含有羟基、固化速度快 Containing OH group, High curability				
M-309 (TMPTA)	三羟甲基丙烷三丙烯酸酯 Trimethylolpropane triacrylate	淡黄色液体 Pale yellow liquid	60~110/25 ℃	3	> 250
	特征: 含有羟基、固化速度快 Containing OH group, High curability				
M-315	EO 改性异氰尿酸酯丙烯酸酯与丙烯酸酯 EO-modified isocyanurate diacrylate and triacrylate	白色固体 White solid	600~1,200/50℃	3	> 250
	特征: 蜡型、良好的耐热性 Wax form, Superior heat resistance				
M-350	三羟甲基丙烷三甲基聚氧乙烯醚丙烯酸酯 Trimethylolpropane polyethoxylate triacrylate	淡黄色透明液体 Pale yellow liquid	45~65/25 ℃	3	-
	特征: 固化速度快 High curability				
M-402	二季戊四醇戊-己-丙烯酸酯 Dipentaerythritol penta/ hexa-acrylate	淡黄色液体或固体 Pale yellow liquid or solid	5,000~7,000/25 ℃	5 ~ 6	> 250
	特征: 固化速度快 High curability				
M-408	二(三羟甲基丙烷)四丙烯酸酯 Ditrimethylolpropane tetra-acrylate	淡黄色液体 Pale yellow liquid	470~670/25 ℃	4	> 250
	特征: 良好的相容性、反应性 High compatibility with various kinds of resin				
M-520	改性多元丙烯酸酯低聚物 Modified polybasic acrylic oligomer	淡黄色液体或固体 Pale yellow liquid or solid	11,500~16,500/25 ℃	5 ~ 6	-
	特征: 含有羟基 COOH group as secondary functionality				
M-1200	聚氨酯丙烯酸酯 Urethane acrylate	淡黄色液体 Pale yellow liquid	120,000~220,000/50℃	2	35
	特征: 不变黄、对聚氯乙烯有良好的粘附性 Non-yellowing type, Excellent adherent properties to polyvinyl chloride				
M-5700	2-丙烯酸-2-羟基-3-苯氧基丙酯 2-Hydroxy-3-phenoxy-propyl acrylate	淡黄色液体 Pale yellow liquid	140~190/25 ℃	1	17
	特征: 含有羟基、可形成柔软的涂膜 Containing OH group, Film of Softness & high elongation				
M-7100	低聚酯丙烯酸酯 Oligoester acrylate	淡黄色液体或褐色液体 Pale yellow or light brown liquid	8,000~13,500/25 ℃	> 3	105
	特征: 可形成有光泽的涂膜、固化速度快、硬度高。 Film of high gloss, High curability, Film of high hardness				
M-8030	低聚酯丙烯酸酯 Oligoester acrylate	淡黄色液体或褐色液体 Pale yellow or light brown liquid	560~960/25 ℃	> 3	> 250
	特征: 良好的相容性、耐热性。 High compatibility with various kinds of resin, Heat-resistance				
M-8060	低聚酯丙烯酸酯 Oligoester acrylate	淡黄色液体或褐色液体 Pale yellow or light brown liquid	5,000~12,000/25 ℃	> 3	> 250
	特征: 良好的相容性、耐热性。 High compatibility with various kinds of resin, Heat-resistance				

2、MACROMONOMER

作为含有可重合官能基的高分子量单体，可通过与其他单体的聚合而形成少量同聚物的接枝聚合物。 这种接枝聚合物可均衡发挥线型聚合物所没有的各种相对性能，例如软/固性、结晶/非结晶、亲水/疏水性等。这种效果可利用与涂料、成型材料、粘着剂、粘结剂、释放剂等多种用途。

MACROMONOMERis a high molecular weight monomer whose properties allow it to be easily polymerizedThismaterial can be polymerized with other monomers to form a graft polymer ofextremely low homopolymercontent. Suc h a graf t polymer of fers conflictingproperties, such as soft/hard, crystalline/amorphous,hydrophobic/hydrophilicproperties, which cannot be attained with a linear polymer. Thus, applicationofMACROMONOMER can impart even higher functions to paints, molding materials,presure sensitive adhesives,adhesives and releasing agents.

型号 Grade	化合物名称 Chemical Nomenclature		外观 Appearance	固含量 Solid (%)	官能基数 Function	分子量 Molecularweight
	TerminalGroup	Segment				
45%AA-6	异丁烯酰基 Methacryloyl	甲基丙烯酸甲酯 Methyl methacrylate	甲苯溶液 Toluene solution	45	1	6,000
	特征：改善耐候性、光泽、相容性、分散性 Improve weatherability, gloss, compatibility, dispersibility					
AA-6	异丁烯酰基 Methacryloyl	甲基丙烯酸甲酯 Methyl methacrylate	粉末 粉末 Powder	> 97	1	6,000
	特征：改善耐候性、光泽、相容性、分散性 Improve weatherability, gloss, compatibility, dispersibility					
AS-6S	异丁烯酰基 Methacryloyl	苯乙烯 Styrene	甲苯溶液 Toluene solution	50	1	6,000
	特征：改善光泽、相容性、分散性 Improve gloss, compatibility, dispersibility					
AS-6	异丁烯酰基 Methacryloyl	苯乙烯 Styrene	粉末 粉末 Powder	> 97	1	6,000
	特征：改善光泽、相容性、分散性 Improve gloss, compatibility, dispersibility					
AN-6S	异丁烯酰基 Methacryloyl	苯乙烯丙烯腈 Styrene-Acrylonitrile	甲苯溶液 Toluene solution	51	1	6,000
	特征：改善强韧性、密着性、相容性 Improve toughness, cohesiveness, compatibility					
AB-6	异丁烯酰基 Methacryloyl	丙烯酸丁酯 Butyl acrylate	粘稠液体 Viscous liquid	> 97	1	6,000
	特征：柔软性、溶解性、粘着性 Add softness, Improve solubility, Tack-improved					

3、AcrylamidoTertiary Butyl Sulfonic Acid (ATBS®)

ATBS®是一种含有磺基的乙烯单体。其重合体被利用在纤维、凝聚剂、分散剂、颜料分散剂、防垢剂等广泛领域中。

ATBS®有很高的重合性，能够简单地与丙烯腈、丙烯酸、丙烯酸酯、丙烯酰胺等重合。

ATBSis functional vinyl monomer of sulfonic acid group.

ATBSpolymers are widely used in many industrial applications such as textile treatmentagents, flocculants,pigment dispersants, scaling preventives in water treatmentsystems and drilling mud additives. Because of its highly-reactive disposition,ATBS can easily be copolymerized with monomers such as acrylonitrile,acrylicacid, acrylamide and acrylic esters by common radical polymerizationtechniques.

产品名称 Product name	化合物名称 Chemical Nomenclature	形状 Shape	分子量 Molecularweight	pH (1% aq.)	融点 Melting point
ATBS®	2-丙烯酰胺基叔丁基磺酸 2-Acrylamido Tertiary Butyl Sulfonic Acid	小颗粒 Granule	207.24	1.4	185℃
	用途：废水处理凝聚剂、比例控制剂、丙烯纤维染色改善剂等。				
	Flocculants,Scale control agents,Improve the dye receptability of acrylic fibers				

三、丙烯聚合物 Acrylic Polymers

1、分散剂 Dispersants

我们提供适合于颜料分散稳定剂、水处理中的水锈附着防止剂、钻井挖掘用分散剂、染色剂、洗涤剂等广泛用途的各种类型分散剂。TOAGOSEIproduces many types of acrylic dispersants for specific applications –dispersion of various pigments used for making paper and paints, prevention ofscaling in water treatment systems, dispersants for drilling mud,dyeing aidsand detergent builders

类型 Type	型号 Grade	化合物名称 Chemical nomenclature	固体含量 (%) Non-volatiles	粘度 (mPa · s) Viscosity	pH	分子量 Molecular weight
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液体 Water solution	Aron A-210	聚丙烯酸钠 Sodium polyacrylate	42~44	50~200	7 ~ 8	3,000
		用途: 颜料分散剂、染料、比例控制剂、土木分散剂 Aron A-210 Sodium polyacrylate Dispersant, Dyeing agent, Scale control agent, Drilling mud				
	Aron A-10SL	聚丙烯酸 polyacrylic acid	39~41	40~150	< 2	5,000
		用途: 颜料分散剂、染料、水锈控制剂、土木分散剂 Aron A-10SL polyacrylic acid Dispersant, Dyeing agent, Scale control agent, Drilling mud				
	Aron T-50	聚丙烯酸钠 Sodium polyacrylate	41~45	500~1,000	7 ~ 9	6,000
		用途: 颜料分散剂、染料、水锈控制剂、土木分散剂、洗涤剂 Aron T-50 Sodium polyacrylate Dispersant, Dyeing agent, Scale control agent, Drilling mud, Detergent builder				
	Aron A-30SL	聚丙烯酸铵 Ammonium polyacrylate	39~41	50~500	7 ~ 9	6,000
		用途: 陶瓷分散剂 Aron A-30SL Ammonium polyacrylate Dispersant for ceramic slip				
	Jurymer AC-203	聚丙烯酸钠 Sodium polyacrylate	39~41	200~600	8 ~ 10 1%水溶液	9,000
		用途: 水锈控制剂、陶瓷分散剂 Jurymer AC-203 Sodium polyacrylate Scale control agent, Dispersant for ceramic slip				
	Aron A-6114	聚丙烯酸铵 Ammonium polyacrylate	39~41	40~150	8 ~ 9	10,000
		用途: 陶瓷分散剂 Aron A-6114 Ammonium polyacrylate Dispersant for ceramic slip				
粉末 Powder	Aron A-6016A	磺酸钠共聚物 Sodium sulfonate copolymer	39~41	45~85	7 ~ 8	2,000
		用途: 比例控制剂、陶瓷分散剂 Aron A-6016A Sodium sulfonate copolymer Scale control agent, Pigment dispersant				
	Aron A-12SL	磺酸共聚物 Sulfonic acid copolymer	39~41	50~200	< 1	10,000
		用途: 水锈控制剂、陶瓷分散剂 Aron A-12SL Sulfonic acid copolymer Scale control agent, Pigment dispersant				
	Aron A-6330	聚羧酸钠盐 Sodium polycarboxylate	39~41	200~500	7.5~8.5	10,000
		用途: 颜料分散剂 Aron A-6330 Sodium polycarboxylate Pigment dispersant for paper coating				
粉末 Powder	Jurymer AC-10MPD	聚丙烯酸钠 Sodium polyacrylate	> 93	100~300 (40%水溶液)	8 ~ 10 1%水溶液	6000
		用途: 颜料分散剂、染料、水锈控制剂、土木分散剂、洗涤剂 Jurymer AC-10MPD Sodium polyacrylate Dispersant, Dyeing agent, Scale control agent, Drilling mud, Detergent builder				
	Jurymer AC-103AP	聚丙烯酸钠 Sodium polyacrylate	> 93	100~400 (40%水溶液)	7~9.5 1%水溶液	7,000
		用途: 水锈控制剂、陶瓷分散剂 Jurymer AC-103AP Sodium polyacrylate Scale control agent, Dispersant for ceramic slip				
	Jurymer AC-10P	聚丙烯酸 Polyacrylic acid	> 93	100~300 (40%水溶液)	2.0~3.5 1%水溶液	9,000
		用途: 颜料分散剂、染料、水锈控制剂、土木分散剂 Jurymer AC-10P Polyacrylic acid Dispersant, Dyeing agent, Scale control agent, Drilling mud				

2、增粘剂 Thickeners

我们提供以聚丙烯酸酯为主的丙烯增粘剂，这些增粘剂拥有增粘效果、流动特性、易作业等特征，分为水溶型、乳液型、粉末型三种。这些产品可作为乳胶、涂料、粘结剂、化妆品的增粘剂使用。 Theseare acrylic thickening agents, mainly consists of sodium polyacrylates, and available in many different grades – water soluble, emulsion or powdery – each having its own characteristics in thickening, flow and workability. These products are used to thicken latexes, paints, adhesives and cosmetics.

类型 Type	型号 Grade	化合物名称 Chemical nomenclature	固含量 (%) Non-volatiles	粘度 (mPa · s) Viscosity	pH	分子量 Molecular weight
液体 Water solution	Jurymer AC-10L	聚丙烯酸 Polyacrylic acid	39~41	1,000~2,000	2.0~3.5 (1%水溶液)	5万 50 thousand
		用途: 高流动性、稳定性 Jurymer AC-10L Polyacrylic acid High fluidity, Stability				
	Aron A-7185	聚羧酸钠盐 Sodium polycarboxylate	17~19	15,000~25,000	8 ~ 10	50万 0.5 million
		用途: 高增粘性、保湿性 Aron A-7185 Sodium polycarboxylate High thickening ability, Holding water ability				
	Jurymer AC-10H	聚丙烯酸 Polyacrylic acid	19~21	20,000~40,000	2.5~3.5 (1%水溶液)	80万 0.8 million
		用途: 高流动性、稳定性 Jurymer AC-10L Polyacrylic acid High fluidity, Stability				
	Aron A-20L	聚丙烯酸钠 Sodium polyacrylate	16~20	20,000~50,000	8 ~ 10	100万 1 million
		用途: 稳定性、易作业				

粉末 Powder	Aron A-20P-X	Aron A-20L Sodium polyacrylate Stability, Easy handling				
		聚丙烯酸钠 Sodium polyacrylate	> 97	400~600/30℃ (0.2%水溶液)	—	500 万 5million
		用途：高流动性、高可纺性 Aron A-20P-X Sodium polyacrylate High fluidity, High spinnability				
乳液 Emulsion	Aron B-300K	聚羧酸锌 Polycarboxylate	43~45	20~100	2 ~ 3	—
		用途：碱中和型增粘剂、低可纺性 Aron B-300K Polycarboxylate Alkali neutralized type, Low spinnability				
	Aron A-7075	聚羧酸锌 Polycarboxylate	19~21	5 ~ 50	2 ~ 4	—
		用途：碱中和型增粘剂、高增粘性 Aron A-7075 Polycarboxylate Alkali neutralized type, High thickening ability				

4、接着剂

PressureSensitive Adhesives ARONTACK

胶带、薄纸、标签等等日常用品和工业用品都是使用接着剂的产品。本公司的接着剂 ARONTACK 是以丙烯酸酯为主要原料的丙烯类粘着剂，拥有耐温、透明、耐热老化等优异的特性。我们可以提供乳液型、溶剂型，强粘着力、弱粘着力，自交联型、二液交联型等适合于多种用途与要求的制品。

Productsusing pressure sensitive adhesives are found in various consumer and industrialproducts such as tapes,labels and seals. “ARONTACK” ,a TOAGOSEI pressure sensitive adhesive,is an acrylic material based mainly onacrylic esters.It has excellent weather resistance, transparency and thermaldegradation resistance. Consumers can choose from among different grades ofARONTACK for their specific uses or property requirements-emulsions or solvent-based polymers, strong adhesion or weak adhesion types, and

self-cross-linkingor

类型 Type	型号 Grade	固含量 (%) Nonvolatiles	粘度 (mPa・s) Viscosity	接着力 (N/10mm) Adhesionstrength	球钉 Ball tack	溶剂 Solvent	用途 Uses
乳液 Emulsion	HV-C9500	62.0~64.0	15,000-20,000	4.0	13	水 Water	各种标签 Various label
		特征：固体分量大、凝聚力强、金属粘着性好 High solids, Good cohesion, Good adhesion for metal					
	HV-C9506	64.0~66.0	20,000-24,000	3.6	14	水 Water	行李、邮寄标签 Label for tag paper
		特征：固体分量大、纸箱粘着性好、低温粘着性好。 High solid, Excellent adhesion, Good adhesion at low temp.					
	HV-C9506	57.5~59.5	5,000-10,000	7.0	14	水 Water	各种标签、热敏纸 Various label, Label for thermal paper
		特征：聚烯烃粘着性好、热敏纸发色、褪色性好 Good adhesion for polyolefin, High reliability for thermal paper					
	HV-C3050	57.0~59.0	5,000-12,000	6.5	13	水 Water	各种标签、热敏纸 Various label, Label for thermal
		特征：聚烯烃粘着性好、曲面粘着性好 Good adhesion for polyolefin, High curved surface adhesion					
	HV-C6320	63.0~65.0	12,000-16,000	3.2	14	水 Water	硬胶条 Kraft tape
		特征：固体分量大、凝聚力强、密封性好 High solids, Good cohesion, Good sealability of cardboard					
有机溶剂 Organic solution	HV-C5166	54.0~56.0	10,000-15,000	6.8	14	水 Water	OPP 胶带 OPP tape
		特征：透明性、密封性好、粘着性强 Clear, Good sealability of cardboard, Good adhesion					
	RP-275	52.0~54.0	12,000-18,000	3.6	12	水 Water	可再生标签 Repulpable rabel
		特征：碱性溶液分解性 Detachment for alkaline solution					
	S-1511X	39.0~41.0	3,000-6,000	5.0	15	乙酸乙酯/甲苯 Ethyl Acetate /Toluene	交卷、纸标签 Label for film & paper
		特征：粘着性能均衡良好 Good balanced properties					
	S-1511	39.0~41.0	3,000-5,500	5.2	15	乙酸乙酯 Ethyl Acetate	交卷、纸标签 Label for film & paper
		特征：粘着性能均衡良好 Good balanced properties					
	S-3403	39.0~41.0	4,500-6,500	9.0	15	甲苯/正己烷 Toluene /n-Hexane	双面胶 Double coated tape
		特征：粘着力强 Strong adhesion					
	S-1601	29.0~31.0	7,000-9,000	3.0	15	甲苯 Toluene	保护膜 Masking film
		特征：可除性好、自交联 Excellent removability, Self cross-linking					

two-part crosslinking

types.

	S-1616	39.0~41.0	110-300	<0.1	< 2	甲基乙基酮 MEK	保护膜 Masking film
		特征：可除性好、微粘着 Excellent removability, Weak-adhesion					

5、粘合剂 Binder

在各种颜料、农药、陶瓷、玻璃纤维、纸浆、无纺布等广泛使用的产品中，我们提供符合各种需求的丙烯酸类粘合剂制品。

TOAGOSEI markets various types of binders that meet the diversified requirements stemming from various applications-pigments, agricultural chemicals、ceramics、glass fibers、paper、non-woven fabrics and so on.

制品名称 Product name	类型 Type	型号 Grade	固含量(%) Nonvolatiles	粘度 (mPa・s) Viscosity	Tg (℃)	PH (25℃)	用途 Uses
JURYMER	液体 Water solution	AT-210	28.5~31.5	5,000-15,000	— 8	7.5~9.5	油墨用粘合剂 Binder for ink
			特征：无泡沫、可形成柔软薄膜 Non-soap type, Softer membrane				
		AT-510	28.5~31.5	15,000-35,000	28	7.5~9.5	化妆品用粘合剂 Binder for cosmetics
			特征：无泡沫、与颜料混合性良好 Non-soap type, Good mixture for pigments				
		AT-613	23.5~26.5	3,000-7,000	76	7 ~ 8	化妆品用粘合剂、钢板涂料 Binder for cosmetics, Coating for sheet steel
			特征：无泡沫、抗粘连性 Non-soap type, Good blocking resistance				
ARON	乳液 Emulsion	A-104	39.0~41.0	300 ~1,000	45	7 ~ 9	颜料类涂料(纸、陶瓷)粘合剂 Binder for paint、ceramics、paper
			特征：耐水、成膜性 Water resistance, Film formability				
		NW-400	49.0~51.0	< 500	—41	5.5~7.5	无纺布用粘合剂、陶瓷用粘合剂 Binder for N.W.F, ceramics
			特征：自交联性、再湿润性好、细腻 Self cross-linking type, Good re-wettability, Smooth texture				
		NW-7060	49.0~51.0	< 500	10	4 ~ 6	无纺布用粘合剂 Binder for N.W.F
			特征：自交联性、湿润、再湿润性好 Self cross-linking type, Good water resistance & re-wettability				

6、涂料基材 Paint Vehicles

以丙烯酸树脂为基础的涂料拥有耐气候性、光泽性、透明性等优良特征。其中还分为干燥型、热烧型涂料和耐水性、密着性、防腐蚀性等级别，适合于各种涂层材料的溶剂型、乳液型产品。这些涂料可用作油墨基材、涂料调节剂使用。

Paints based on acrylic resins offer excellent weather resistance, transparency and gloss. TOAGOSEI produces solvent-based and emulsion-base products that are suitable for various paint materials. Further, they have found broad acceptance as ink and paint modifiers.

制品名称 Product name	类型 Type	型号 Grade	固含量(%) Nonvolatiles	粘度 (mPa·s) Viscosity	Tg (℃)	PH (25℃)	用途 Uses	
JURYMER	乳液 Emulsion	ET-410	28.5~31.5	10~50	44	7.5~8.5	化妆品涂层 Coating for cosmetics	
			特征：无泡沫、机械稳定性良好、耐水 Non-soap type, Excellent mechanical stability, Water resistance					
		SEK-301 增粘物	36.0~40.0	100~500	18	8 ~ 10	纸和膜涂层 Coating for paper, film	
			特征：无泡沫、自交联性、耐水性纸 Non-soap type, Self cross-linking type, Water resistance					
ARON	乳液 Emulsion	NS-1200 (1)	39.0~41.0	60 ~170	45	7 ~ 9	金属、玻璃、塑料用涂层、粘合剂 Paint & binder to metal, glass and plastics	
			特征：无泡沫、高密着性（金属、玻璃、塑料） Non-soap type, Excellent adhesion to metal, glass, plastics					
		PE-1000	36.0~40.0	< 100	—	6.5~8.5	地板蜡 Floor polish	
			特征：有光泽、密着性强 High gloss, Excellent adhesion to chemical floor					
		有机溶剂 Organic solution	S-1017	36.5~41.5	1,500~3,500 (30 ℃)	95	—	涂料的表面涂层、PVC 表面处理剂 Top coat , Coatings for PVC surface
				特征：强韧的保护膜、有光泽、耐温性好 Hard, High gloss, Good weathering Top coat				
		S-2060	23.0~27.0	13,000~20,000 (30 ℃)	95	—	PVC 表面处理剂、磁带用黏合剂 Coatings for PVC surface, Binder for magnetic tape	
			特征：柔软、强韧的保护膜 Surface of toughness & softness					

四、特殊聚合物 Special Polymers

1、接枝聚合物 SYMAC, RESEDA

Graft polymers SYMAC, RESEDA

我们公司利用大分子单体合成技术与接枝重合技术,提供各种特性化的丙烯酸接枝聚合物产品。可为同时发挥硅胶与丙烯独有的特性,在 SYMAC 中使用了能够作为分离性、润滑性的涂层剂。RESEDA

拥有优秀的相容性、密着性,可作为树脂增溶剂、分散剂、涂料、涂层、底漆使用。

TOAGOSEI markets various types of unique acrylic graftpolymers based on its own macromonomer synthesis and graft polymerizationtechnologies. “SYMAC” isused for various

coatings materials that make the most of itsgood mold release and lubrication because SYMAC can simultaneously offer theproperty of silicones and the feature of acrylic resins.

“RESEDA” is used for compatibility agents, dispersants,paints, coating materials and primers because of its high compatibility and cohesiveness.

制品名称 Product Name	聚合物类型 Type of graft polymer	类型 Type	型号 Grade	固含量(%) Non-volatiles	粘度 Viscosity (mPa·s)	羟值 OH Value (mgKOH/g)	酸度值 Acid Value (mgKOH/g)	环氧值 Epoxy Value (OEHmg/g)	特征 Characteristics
SYMAC	硅树脂类 Silicone graft polymer	溶剂型 Organic solution	US-270	29	10~150	26	—	—	润滑性、分离性、拒水性 Superb lubricity, anti-stic, water repellence
			US-350	29	100~400	—	20	—	
			US-380	30	200~700	—	20	—	
		液体 Water solution	US-450	30	500~3,000	—	—	—	
		用途: 热敏纸底面涂层、罐头用润滑剂、表面保护涂层、离型纸 Back coat for thermal transfer sheets, Lubricant coating material of cans.							
RESEDA	苯乙烯/丙烯 Styrene/Acryl GP	溶剂型 Organic solution	GP-210S	49	100~400	—	—	—	密着性、相容性 High cohesiveness and compatibility
				用途: 塑料涂料 Paint for plastic					
	丙烯/PMMA Acryl/PMMA GP	粉末 Powder	GP-301	>99	—	—	—	34	密着性、相容性 High cohesiveness and compatibility
				用途: 增溶剂、分散剂、涂层 Compatibilizing agent, dispersant, coating					

2、胶凝剂 Gelling agent

胶凝技术被广泛利用于外用膏药基材、化妆品、退烧贴等领域。本公司可提供以丙烯酸聚合物为中心的中和型 ARONVIS，交联型 JUNLON、RHEOJIC等产品。

Gelling technology is widely applying for poultices、cosmetics、cooling sheets.TOAGOSEI markets various types of polyacrylates for gelling agent: ARONVIS(partially neutralized)、

JUNLON(crosslinked)、RHEOJIC(crosslinked)

制品名称 Product Name	化合物名称 Chemical nomenclature	类型 Type	型号 Grade	干燥减量 (%)	粘度 (mPas) Viscosity	pH (25℃)	特征 Characteristics	用途 Uses
ARONVIS	部分中和聚丙烯酸钠 Partially neutralized sodium polyacrylate	粉末 Powder	AH-105X	<5	500-650/20℃, (0.2%水溶液)	6.0-7.0 (0.2%水溶液)	弱酸性环境中的增粘性、通用型 Thickening under weak acid, General purpase	膏状药基材、化妆品增粘、凝结剂 Poultices、 Thickener for cosmetics
			AH-106X	<5	500-650/20℃, (0.2%水溶液)	5.5-6.5 (0.2%水溶液)	弱酸性环境中的增粘性、高密着性 Thickening under weak acid, High adhesion	膏状药基材、化妆品增粘、凝结剂 Poultices, Thickener for cosmetics
	SX		<5	400-620/20℃, (0.2%水溶液)	8.0-10.0 (0.2%水溶液)	高增粘性 High thickening ability	膏状药基材、化妆品增粘、凝结剂 Poultices, Thickener for cosmetics	
JURYMER	聚丙烯酸 Polyacrylic acid		AC-10LHP	<5	500-1,000/25℃, (10%水溶液)	2.5-4.0 (1%水溶液)	对颜料粘合性良好 Excellent binding for pigment	膏状药基材、各种颜料黏合剂 Poultices, Binder for pigments
RHEOJIC	交联聚丙烯酸钠 Cross-linked sodium polyacrylate		260H	<5	7,000-13,000/25℃, (0.5%水溶液)	8.0-9.0 (0.5%水溶液)	低可纺性、触变性 Low spinnability, thixotropic	化妆品等各种增粘剂 Thickener for cosmetics
			262L	<5	1,500-3,000/25℃, (0.5%水溶液)	8.0-9.0 (0.5%水溶液)	低可纺性、低粘合性凝胶 Low spinnability, Low adhesive gel	化妆品等各种增粘剂 Thickener for cosmetics
JUNLON	交联聚丙烯酸 Cross-linked polyacrylic acid		PW-120	<5	8,000-20,000/25℃, (0.2%水溶液)	2.5-4.0 (0.2%水溶液)	可在极性溶剂、酒精中溶解 Soluble to polar solvent and alcohol	膏状药基材、金属粉末黏合剂 Poultices, Binder for metal powder
			PW-160	<5	25,000-45,000/25℃ (0.2%水溶液)	3.0-3.8 (0.2%水溶液)	高增粘性、高触变性 High thickening ability, High thixotropy	膏状药基材、金属粉末黏合剂 Anti-precipitation, Binder for metal powder

五、以 UFO 技术为基础的无溶剂型丙烯酸聚合物

Non-solvent Acrylic PolymersBased on UFO Technology

1、ARUFON

ARUFON 是以本公司从美国 SCJohnson Polymer, Inc.引进的 SGO（固体级低聚物）技术为基础开发而成的无溶剂型丙烯酸聚合物产品总称。SGO 技术是以苯乙烯聚合物为中心的组成物在高温、高压环境下进行连续块状重合，从而在短时间内得到 100％低分子聚合物的技术。我司利用多年的丙烯酸聚合物合成经验、改进了 SGO 技术，开发出了各种 Tg 及分子量领域中的苯乙烯/丙烯/纯丙烯酸聚合物。

“ARUFON” is a non-solvent acrylic polymers based on the Solid Grade Oligomer(SGO) technology developed by SC Johnson Polymer, Inc. SGO is a technology to obtain 100% low molecular weight polymers in a short time by continuous bulk polymerization mainly of styrene monomers under high-temperature, high-pressure conditions. TOAGOSEI has improved the SGO technology by the maximum use of its long experience in polymerization, based on which the company has developed various selections of polymers - styrene/acrylic type and all acrylic type - which feature various Tg and narrow molecular weight distribution.

树脂类型 Resin Type	型号 Grade	溶解性 (40%) Solubility				组成分类 Type	用途 Uses
		碱性水 Alkali aq.	IPA	乙酸乙 酯 Ethylacetate	甲苯 Toluene		
无官能基树脂 Non-functional group	UP-1000	—	○	○	○	纯丙烯酸 All acryl	黏合剂、密封材料增塑剂、均染剂 Adhesive, Plasticizer for sealant, Leveling agent
	UP-1021	—	○	○	○	纯丙烯酸 All acryl	塑料增塑剂、助流剂 Plasticizer and flow modifier for plastics
	UP-1110	—	○	○	○	纯丙烯酸 All acryl	黏合剂、密封材料增塑剂、均染剂 Adhesive, Plasticizer for sealant, Coatings and plastics
含羟基树脂 Resin with OH group	UH-2000	—	○	○	○	纯丙烯酸 All acryl	黏合剂、密封材料增塑 剂 Adhesive, Polyol for sealant
	UH-2170	—	○	○	○	苯 丙 Styrene-Acryl	高固体涂料、粉末涂料 High solid paint, Polyol for powder coating
含羧基树脂 Resin with COOH group	UC-3000	○	△	○	○	纯丙烯酸 All acryl	颜料分散剂、涂装材料改质剂、表面施胶机 Dispersant for pigment, Coatings, Sizing agent for paper
含羧基和长链烷基 树脂 Resin with COOH and long alkyl group	UF-5022	○	○	○	○	苯 丙 Styrene-Acryl	颜料分散剂、涂装材料改质剂、表面施胶机 Dispersant for pigment, Coatings, Sizing agent for paper
含环氧基树脂 Resin with Epoxy group	UG-4010	—	○	○	○	纯丙烯酸 All acryl	聚酯纤维改质剂、反应性可塑剂 Chain extender and reactive plasticizer for polyester and polyamide
	UG-4035	—	○	○	○	苯 丙 Styrene-Acryl	聚酯纤维改质剂、加工性改良剂、增溶剂 Chain extender, processing aid and compatibilizer for polyester and polyamide
	UG-4070	—	○	○	○	苯 丙 Styrene-Acryl	聚酯纤维改质剂、加工性改良剂、增溶剂 Chain extender, processing aid and compatibilizer for polyester and polyamide
含甲基树脂 Resin with alchoxysilyl group	US-6100	—	○	○	○	纯丙烯酸 All acryl	黏合剂、密封材料增塑剂 Adhesive, Reactive plasticizer for sealant