

复合材料用相容剂 MARICOM®

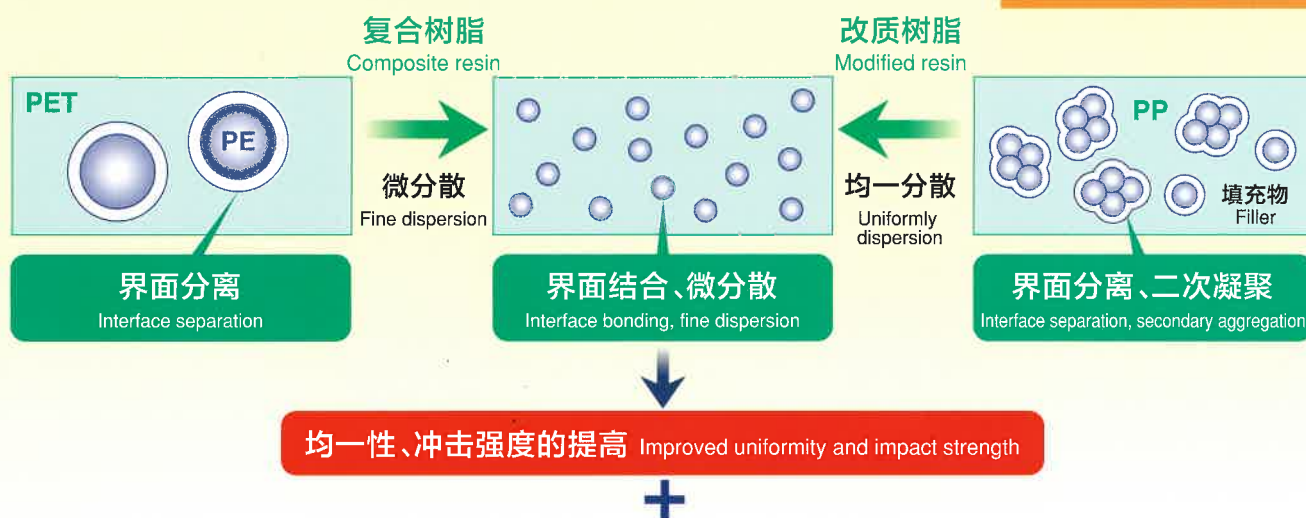
Compatibilizer for Composite Materials / MARICOM®

MARICOM®是什么产品？ What is MARICOM®?

- 这是以聚乙烯树脂为基础的相容剂母体。
This is a masterbatch of compatibilizer based on polyethylene resin.
- 通过混合相容剂MARICOM®,
通常无法混合的树脂或者填充物也可以混炼。
Blending of compatibilizer "MARICOM®" allows for kneading between normally incompatible resins or with an incompatible filler.



MARICOM



通过本公司拥有的混合、混炼技术提供材料的解决方案
Provision of material solutions based on our own blending and kneading technology

适用材料和效果 Applicable materials and effects

■ 复合材料 Composite material

对于各种材料有效,对于包含3种或以上材料也同样适用。

It is effective for various materials and it can be applied even when it contains three or more kinds.

- 树脂种类: PE等聚烯烃、PET等聚酯、PA6等聚酰胺
Resin type: Polyolefin such as PE, polyester such as PET, polyamide such as PA6
- 填充物种类: 木粉等纤维素、无机物类似滑石。
Filler type: wood flour such as cellulose, inorganic such as talc

■ 树脂改质 Modification of resin

PET等聚酯类树脂通过添加会有以下效果。

The following effects can be obtained by adding to polyester resin such as PET.

- 通过耐冲击提高来改善脆性
Improvement of brittleness by better impact strength
- 通过熔融粘度提高使挤出性提高
Improvement of extrudability by increase of melt viscosity

代理商: 松金国际贸易南通有限公司

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MARICOM® 复合材料用相容剂

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混合案例 Formulation example

■ 复合树脂 (例: PET+PE) Composite resin (e.g., PET + PE)

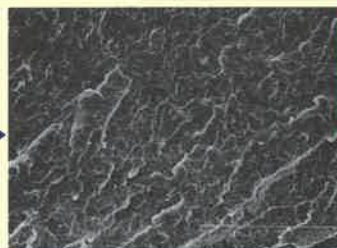
→ PET通过混合PE被付与了韧性 (伸展性、冲击强度)

By blending PE, toughness (elongation, impact strength) is imparted to PET



PET+PE
(单纯混合)
PET + PE (simple mixture)

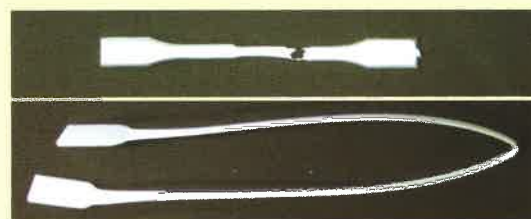
→ 在PET的海洋里有
PE的岛屿
Islands of PE
in the sea of PET



相容的PET/PE
(添加MARICOM)
Compatibilized PET/PE
(by adding MARICOM)

→ PE在PET中
微分散
Fine dispersed PE
in PET matrices

混合 Formulation PET / PE / MARICOM	拉伸 Tensile		IZOD impact notched (kJ/m ²)	弯曲 Flexural	
	应力 Stress (MPa)	伸展 Elongation (%)		应力 Stress (MPa)	弹性率 Modulus (MPa)
80 / 20 / 0	41	42	3.1	45	1400
80 / 15 / 5	43	385	13.3	48	1450



PET/PE混合物的拉伸试验后的样品
(上图: 无MARICOM、下图: 有MARICOM)

Samples of PET/PE alloy after tensile testing
(above: without MARICOM, below: with MARICOM)

■ 改质树脂 (例: PP+木粉) Modified resin (e.g., PP + wood flour)

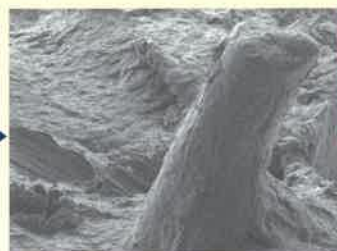
→ 疏水性的PP和亲水性的木粉紧密性改善, 界面强度提高。

Improve interfacing between PP (hydrophobic) and wood flour (hydrophilic) and improve interface strength.



PP+填充物
(单纯混合)
PP + filler (simple mixture)

→ PP和填充物之间
有间隙的状态
Gaps between PP
and fillers



PP/填充物界面附着
(添加了MARICOM)
Adhered PP/filler interface
(by adding MARICOM)

→ 提高PP和填充物的
亲和性
Improvement of affinity of
PP and filler

混合 Formulation PP / 木粉 / MARICOM PP / wood flour / MARICOM	拉伸 Tensile		IZOD impact notched (kJ/m ²)	弯曲 Flexural	
	应力 Stress (MPa)	伸展 Elongation (%)		应力 Stress (MPa)	弹性率 Modulus (MPa)
50 / 50 / 0	21	1.9	3.5	39	4450
45 / 50 / 5	31	2.7	7.4	54	4300

*上述为代表值, 并非保证值。

* The data above are representative values and not guaranteed.

*The grade of MARICOM is J1000MB.

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MARICOM 复合材料数据 Alloy data with MARICOM

■ 通过MARICOM的添加，提高各种复合材料的伸展性和抗冲击强度。

By adding MARICOM, elongation and impact strength of various composite materials are improved.

*The grade of MARICOM is J1000MB.

Ratio (%)		拉伸 Tensile		IZOD impact notched (kJ/m ²)	弯曲 Flexural	
		应力 Stress (MPa)	伸展 Elongation (%)		应力 Stress (MPa)	弹性率 Modulus (MPa)
PET / PE / MARICOM	80 / 20 / 0	41	42	3.1	45	1400
	80 / 15 / 5	43	385	13.3	48	1450
	30 / 70 / 0	16	53	4.7	14	420
	30 / 65 / 5	17	>400	>50	14	400
PET / PP / MARICOM	70 / 30 / 0	41	47	3.8	56	1830
	70 / 25 / 5	42	140	6.1	52	1780
	30 / 70 / 0	30	50	4.7	39	1370
	30 / 65 / 5	30	155	7.8	37	1300
PA6 / PP / MARICOM	70 / 30 / 0	51	38	3.3	65	1870
	70 / 25 / 5	52	83	5.4	64	1800
	30 / 70 / 0	36	48	5.3	42	1390
	30 / 65 / 5	39	116	6.9	40	1320
PBT / PE / MARICOM	70 / 30 / 0	39	47	3.3	56	1480
	70 / 25 / 5	41	190	5.8	52	1490
	30 / 70 / 0	30	82	7.4	39	380
	30 / 65 / 5	30	330	>50	38	390

*上述为代表值,并非保证值。根据使用的树脂型号和条件有所不同。

* The data above are representative values and not guarantee. It also varies depending on the grade of resin and conditions to be used.

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用途 Application

基础树脂 Based resin	复合材料 Compounded materials		用途 Application	期待效果 Expected effects	
	树脂 Resin	填充物 Filler		机械性能 Mechanical properties	其他 Others
PO (PE,PP)	PET	—	薄布、薄膜 Sheet, film	↑ 刚性 Rigidity	绸缎的手感 Silky touch
	—	木粉 wood flour	木塑复合材 Wood plastic composite	↑ 冲击强度 Impact strength	耐水性 Water resistance
	—	滑石 Talc	挤出 (树脂涂层等) Extrusion (resin coating etc.)	↑ 延伸性 Elongation	防止裂开 Suppression of crack
PET	PE	—	薄布、薄膜 Sheet, film	↑ 伸展、冲击强度 Elongation, impact strength	防止垂落 Suppression of drawdown
PA	PP	玻纤 Glass fiber	射出成形 Injection molding	↑ 冲击强度 Impact strength	成形安定性提高 Improvement molding stability

复合树脂废材循环使用 Application to composite resin waste recycling

- 原来循环利用困难的夹层薄膜等树脂复合废材,通过MARICOM的混合,可以循环利用为有实用物理性能的树脂。

Blending of MARICOM with wasted resin composites such as laminated film, which have been traditionally difficult to be recycled, enables them to be recycled to a resin with practical physical properties.



本公司活用自有的混合、混炼技术,目标是提供树脂复合化,赋予材料功能的解决方案。

有关复合材料的混炼、相容化、赋予功能等请随时联系我们。

Our goal is to provide material solutions in the area of resin composite and the addition of functionality by making use of our own blending and kneading technology. Please consult us about the kneading and compatibilization of composite materials, an expansion in functionality, and so on.

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