

开发品 Prototype

碳纳米管造粒 Granulated Carbon Nano-Tube

MARICOM CT系列 MARICOM CT series

何谓MARICOM CT系列? / MARICOM CT series

CNT(粉末) Ungranulated CNT



CNT课题 Difficulties of CNT

- ×安全性(飞散性) Safety(Dustability)
- ×分散性 Dispersibility

造粒化(+粘合剂)
Granulation

CNT造粒(颗粒)
Granulated CNT



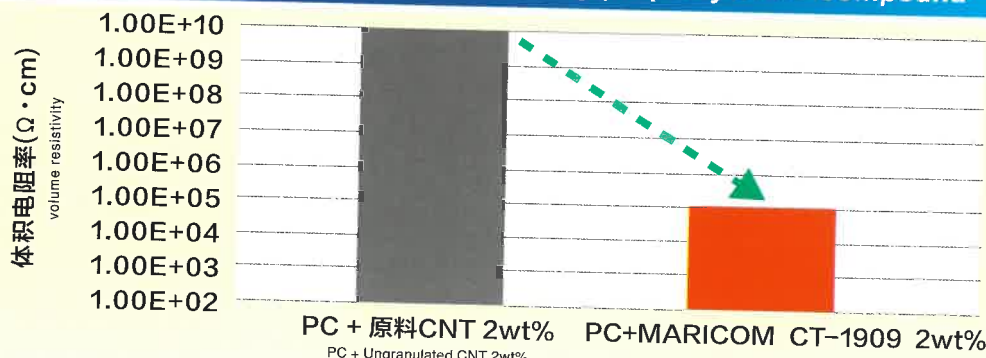
提供便于客户使用的形状
EASY TO HANDLE FOR USERS

通过造粒后大幅度减少飞散量,改善可操作性
Makes great decrease of dustability and enhances safety.

PC改性料 机械物性数据一览 / Mechanical properties of PC compound

项目 Items	单位 Unit	PC (CNT未添加) PC without CNT	PC+原料CNT 2wt% PC + Ungranulated CNT 2wt%	PC+MARICOM CT-1909 2wt%
体积电阻率 volume resistivity	$\Omega \cdot \text{cm}$	1.00.E+14	1.00.E+10	1.00.E+05
夏比冲击试验 Charpy impact	kJ/m^2	89	75	81
拉伸强度 Tensile strength	MPa	62	63	63
拉伸伸长率 Tensile elongation	%	119	45	44
弯曲强度 Flexural strength	MPa	93	94	93
弯曲弹性率 Flexural modulus	MPa	2,300	2,580	2,450
MVR 300°C、1.20kgf	$\text{cm}^3/10\text{min}$	14.0	11.5	9.2

PC改性料 导电性数据 / Electrical conductivity property of PC compound



随着造粒化, CNT被均一分散, 实现低添加量高导电性
Makes uniform dispersion of CNT and high electrical conductivity with only low additive amount.

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