RC-2030

Silicone-Acrylic Core-Shell Impact Modifier

TECHNICAL DATA SHEET **TDS | RC Polymer Solutions**

Product Description

RC-2030 is a core-shell impact modifier for engineering-plastics applications. It has a silicone-acrylic rubber core with an MMA-based grafted shell.

Key feature: Low-temperature impact performance. **Applications in source:** PC; PA (secondary).

Typical PC Application Performance

Reference test formulation: PC / impact modifier / PETS / antioxidant 1010 = 95 / 5 / 0.2 / 0.2 (parts).

Property	Test method / condition	Unit	RC-2030
Notched Izod impact, 23°C	ASTM D256	J/m	729
Notched Izod impact, -30°C	ASTM D256	J/m	623
Notched Izod impact, -40°C	ASTM D256	J/m	600
Tensile strength	ASTM D638, 50 mm/min	MPa	63.8
Elongation at break	ASTM D638, 50 mm/min	%	115.6
Flexural strength	ASTM D790, 2 mm/min	MPa	89.9
Flexural modulus	ASTM D790, 2 mm/min	Not stated	2443
Melt flow rate, 300°C / 1.2 kg	ASTM D1238	g/10 min	14.63
Gloss, 60°	—	GU	102
Natural color L*	—	—	93.11
Natural color a*	—	—	-0.29
Natural color b*	—	—	2.31
Yellowness index	D1925	—	4.25
1% black masterbatch L*	—	—	31.43
1% black masterbatch a*	—	—	-0.34
1% black masterbatch b*	—	—	-2.15

Processing Reference

Twin-screw extrusion	Zones C1–C9: 260–270°C; die: 270°C
Injection molding	Zones T1–T3: 260–280°C

Results are reference measurements from the stated PC formulation and test conditions.

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