

EMERGE™ PC/ABS 7350 Advanced Resin

Overview

EMERGE™ PC/ABS 7350 advanced resin is a high flow and high toughness PC/ABS alloy. It is designed for thin wall application with high heat requirement.

Applications:

- Mobile phone and PDA housing
- Sporting goods

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	4.2 g/10 min	4.2 g/10 min	
260°C/5.0 kg	25 g/10 min	25 g/10 min	
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	7690 psi	53.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	130 %	130 %	ASTM D638
Flexural Modulus	377000 psi	2600 MPa	ASTM D790
Flexural Strength	12600 psi	87.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	13 ft-lb/in	700 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	221 °F	105 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ²			UL 94
0.04 in (1.0 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 194 °F	80 to 90 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C	
Mold Temperature	140 to 176 °F	60 to 80 °C	