

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	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	7690 psi	53.0 MPa	
Tensile Elongation			ASTM D638
Break, 0.126 in (3.20 mm), Injection Molded	130 %	130 %	
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	377000 psi	2600 MPa	
Flexural Strength			ASTM D790
0.126 in (3.20 mm), Injection Molded	12600 psi	87.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	13 ft-lb/in	700 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.126 in (3.20 mm)	248 °F	120 °C	
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	221 °F	105 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹			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 °F	80 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Rear Temperature	446 to 482 °F	230 to 250 °C	
Middle Temperature	464 to 500 °F	240 to 260 °C	
Front Temperature	482 to 518 °F	250 to 270 °C	
Nozzle Temperature	464 to 518 °F	240 to 270 °C	
Mold Temperature	140 to 176 °F	60 to 80 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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