

EMERGE™ PC/ABS 7350ECO

Advanced Resin

Overview

EMERGE™ PC/ABS 7350ECO advanced resin is specially designed with balanced toughness, material flow and flexure modulus. It is designed for thin wall application with high heat and high mechanical strength needs.

Benefits

- Balanced mechanical strength and processability
- Good heat resistance

Applications:

- Enclosures
- Electrical accessories
- Keycaps
- Portable devices

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.18 g/cm ³	1.18 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133
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 ¹ (Yield)	7980 psi	55.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	66 %	66 %	ASTM D638
Flexural Modulus	348000 psi	2400 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))	12 ft-lb/in	630 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed	248 °F	120 °C	
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	