

EMERGE™ PC/ABS 7560ECO Advanced Resin

Overview

EMERGE™ PC/ABS 7560ECO advanced resin is an ignition-resistant PC/ABS alloy without chlorine or bromine additives. Its superior processing makes it ideal for molding large parts and optimizing cycle time productivity in injection molding operations. It has a UL 94 flammability rating of V-0 at 1.5mm. This resin is suitable for use in a wide variety of applications in the information technology equipment and consumer electronics markets.

Applications:

TV enclosures, monitor enclosures, PC enclosures, adaptors and chargers.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			
260°C/5.0 kg	75 g/10 min	75 g/10 min	ASTM D1238
230°C/3.8 kg	20 g/10 min	20 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			ASTM D638
Yield	9000 psi	62.1 MPa	
Break	6700 psi	46.2 MPa	
Tensile Elongation ¹			ASTM D638
Yield	4.0 %	4.0 %	
Break	50 %	50 %	
Flexural Modulus	410000 psi	2830 MPa	ASTM D790
Flexural Strength	14200 psi	97.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	7.0 ft-lb/in	370 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	201 °F	94.0 °C	
264 psi (1.8 MPa), Unannealed	180 °F	82.2 °C	
Vicat Softening Temperature	227 °F	108 °C	ASTM D1525 ²
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ³ (0.06 in (1.5 mm))	V-0	V-0	UL 94
Oxygen Index ³	29 %	29 %	ASTM D2863
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	428 to 482 °F	220 to 250 °C	
Mold Temperature	140 to 194 °F	60 to 90 °C	