

Styron EMERGE[®],ç 8600-10 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

EMERGE[®],ç PC 8600-10 is a translucent, ignition-resistant polycarbonate resin. The resin contains no bromine, chlorine or phosphate additives and is intended to comply with global environmental standards. It is an easy flow PC resin suitable for use in injection molded applications in the computer, electronics, electrical, and information technology equipment markets. Information provided by Dow This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-EMERGE-8600-10-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Ultimate	57.9 MPa	8400 psi	0.125 in, injection molded, unannealed; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	2in/min, 0.125 in specimen, injection molded, unannealed; ASTM D638
Elongation at Break	110 %	110 %	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Yield	6.2 %	6.2 %	0.125 in, injection molded, unannealed; ASTM D638
Tensile Modulus	2.21 GPa	320 ksi	0.125 in, injection molded, unannealed; ASTM D638
Flexural Strength	93.8 MPa	13600 psi	0.125 in, injection molded, unannealed; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	0.125 in, injection molded, unannealed; ASTM D790
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	59.0 J	43.5 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
	64.8 Âµm/m-Â°C	36.0 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature 20.0 Â°C	English @ Temperature 68.0 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	260 Â°F	ASTM D648
Vicat Softening Point	149 Â°C	300 Â°F	120Â°C/hr, 10N; ASTM D1525
UL RTI, Electrical	125 Â°C	257 Â°F	UL 746
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746
UL RTI, Mechanical without Impact	125 Â°C	257 Â°F	UL 746
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	35 %	35 %	ASTM D2863
Glow Wire Test	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	IEC 695-2-1

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
Drying Temperature	125 Â°C	257 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	

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