

Styron EMERGE[®],ç 4410-11 MFR Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

EMERGE[®],ç PC 4410-11 advanced resin is a high impact polycarbonate resin designed for Information Technology Equipment and Injection Molding Applications. 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-4410-11-MFR-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 1.20 kg, Temperature 300 Â°C	11 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.8 MPa	8100 psi	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Break	130 %	130 %	0.125 in, injection molded, unannealed; ASTM D638
Flexural Strength	89.6 MPa	13000 psi	0.125 in, injection molded, unannealed; ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	0.125 in, injection molded, unannealed; ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	-22Â°F; ASTM D256
	6.94 J/cm	13.0 ft-lb/in	73Â°F; ASTM D256
Dart Drop, Total Energy	57.0 J	42.0 ft-lb	0.125 in, 8000 ipm; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	0.125 in, 8000 ipm, unannealed; ASTM D648
	136 Â°C	277 Â°F	0.125 in, 8000 ipm, annealed; ASTM D648
Vicat Softening Point	146 Â°C	295 Â°F	50Â°C/hr, 50N; ASTM D1525
UL RTI, Electrical	110 Â°C	230 Â°F	UL 746
UL RTI, Mechanical with Impact	95.0 Â°C	203 Â°F	UL 746

UL RTI Mechanical without Impact Thermal Properties	105 Å°C Metric	221 Å°F English	UL 746 Comments
Flammability, UL94	HB	HB	0.0625 in

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