

Styron EMERGE[®],ç 4702-8 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

EMERGE[®],ç PC 4702-8 advanced resin is formulated with 20% glass fiber and a proprietary flame retardant package. It provides good ignition resistance, rigidity, dimension stability and heat resistance. Applications: Information Technology Equipment Power Tools Electrical Appliances and Parts 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-4702-8-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Filler Content	20 %	20 %	Glass; ASTM 5630B
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
Melt Flow	8.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	8.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	79.3 MPa	11500 psi	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Break	4.0 %	4.0 %	0.125 in, injection molded, unannealed; ASTM D638
Tensile Modulus	5.86 GPa	850 ksi	0.125 in, injection molded, unannealed; ASTM D638
Izod Impact, Notched	0.908 J/cm	1.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.86 J/cm	9.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	>= 125 Â°C	>= 257 Â°F	IEC 60335-1
Deflection Temperature at 1.8 MPa (264 psi)	136 Â°C	277 Â°F	unannealed; ASTM D648
	147 Â°C	297 Â°F	annealed; ASTM D648
Vicat Softening Point	146 Â°C	295 Â°F	50Â°C/hr, 50N; ASTM D1525
UL RTI, Electrical	120 Â°C	248 Â°F	UL 746
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746

UL RTI Mechanical without Impact Thermal Properties	120 Â°C Metric	248 Â°F English	UL 746 Comments
Flammability, UL94	V-0	V-0	0.0625 in
	V-0	V-0	0.125 in
Glow Wire Test	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	IEC 60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V @Thickness 2.00 mm	175 V @Thickness 0.0787 in	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 316 Â°C	550 - 601 Â°F	
Mold Temperature	82.0 - 116 Â°C	180 - 241 Â°F	
Drying Temperature	121 Â°C	250 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	

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