

Styron EMERGE[®], 4202-15 MFR Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

EMERGE[®], PC 4202-15 advanced resin is 20% glass reinforced polycarbonate containing mold release for optimal processing. This resin exhibits high modulus and excellent dimensional stability. Applications: Information Technology Equipment Electrical parts Other structural / internal 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-4202-15-MFR-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 Â°C	15 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	82.7 MPa	12000 psi	0.125 in, injection molded, unannealed; ASTM D638
Tensile Strength, Yield	82.7 MPa	12000 psi	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Break	3.0 %	3.0 %	0.125 in, injection molded, unannealed; ASTM D638
Tensile Modulus	5.17 GPa	750 ksi	0.125 in, injection molded, unannealed; ASTM D638
Flexural Strength	148 MPa	21500 psi	0.125 in, injection molded, unannealed; ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	0.125 in, injection molded, unannealed; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	299 Â°F	annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Â°C	280 Â°F	unannealed; ASTM D648
	142 Â°C	288 Â°F	annealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-2	V-2	0.0630 in
	V-0	V-0	0.120 in
Oxygen Index	30 %	30 %	ASTM D2863

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 315 Â°C	554 - 599 Â°F	
Mold Temperature	80.0 - 115 Â°C	176 - 239 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	

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