Styron EMERGEâ„¢ 7700 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Overview: EMERGEâ„¢ PC/ABS 7700 Advanced Resin is an ignition-resistant PC/ABS blend that contains no chlorine for bromine additives. It has superior processability for injection molding applications. This grade has excellent aesthetics, is UV stabilized and is available in custom colors. Applications:Medical equipment housingsConsumer ElectronicsInformation technology equipmentInformation provided by Styron

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-EMERGE-7700-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/inÂ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 3.80 kg, Temperature 230 Â°C	11 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120 @Thickness 3.20 mm	120 @Thickness 0.126 in	Injection Molded; ASTM D785
Tensile Strength at Break	48.3 MPa @Thickness 3.20 mm	7010 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Strength, Yield	60.0 MPa @Thickness 3.20 mm	8700 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Break	65 % @Thickness 3.20 mm	65 % @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Yield	3.8 % @Thickness 3.20 mm	3.8 % @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Modulus	2.62 GPa @Thickness 3.20 mm	380 ksi @Thickness 0.126 in	Injection Molded; ASTM D638
Flexural Strength	96.5 MPa @Thickness 3.20 mm	14000 psi @Thickness 0.126 in	Injection Molded; ASTM D790
	2.69 GPa	390 ksi	

Mechanical Properties	Metric	English	Comments
Flexural Modulus	@Thickness 3.20 mm	@Thickness 0.126 in	Injection Molded; ASTM D790
Izod Impact, Notched	2.00 J/cm @Thickness 3.20 mm, Temperature -18.0 Â°C	3.75 ft-lb/in @Thickness 0.126 in, Temperature -0.400 Â°F	Injection Molded; ASTM D256
	5.90 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	11.1 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	Injection Molded; ASTM D256
Charpy Impact, Notched	1.20 J/cmÂ² @Temperature -30.0 Â°C	5.71 ft-lb/inÂ² @Temperature -22.0 Â°F	Injection Molded; ISO 179/1eA
	4.50 J/cmÂ² @Temperature 23.0 Â°C	21.4 ft-lb/inÂ² @Temperature 73.4 Â°F	Injection Molded; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	37.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM D696
CTE, linear, Transverse to Flow	68.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	37.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.1 Â°C	205 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Unannealed; ASTM D648
Vicat Softening Point	110 Â°C @Load 1.02 kg	230 Â°F @Load 2.25 lb	Rate B (120Â°C/h); ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 274 Â°C	460 - 525 Â°F	
Mold Temperature	60.0 - 90.6 Â°C	140 - 195 Â°F	

Processing Properties	Metric	English	Comments
Drying Temperature	82.2 - 87.8 Â°C	180 - 190 Â°F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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