

Styron EMERGE[®],ç 7570 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

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

Material Notes:

Overview: EMERGE[®],ç PC/ABS 7570 Advanced Resin is a high flow, ignition-resistant PC/ABS blend that contains now chlorinated or brominated additives. Its superior processing makes it ideal for injection molding of large, thin-wall, or intricate parts. EMERGE PC/ABS 7570 is suitable for use in a wide variety of applications in the Information Technology Equipment & Consumer Electronics industries.

Applications: LCD TV Enclosures CRT TV Enclosures Monitor and PC Enclosures Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-EMERGE-7570-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183/B
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	20 g/10 min	20 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 Â°C	@Load 8.38 lb, Temperature 446 Â°F	
	95 g/10 min	95 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Tensile Strength, Yield	60.0 MPa	8700 psi	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Break	40 %	40 %	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Yield	4.0 %	4.0 %	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Tensile Modulus	2.60 GPa	377 ksi	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Flexural Strength	92.0 MPa	13300 psi	2.0 mm/min, Injection Molded; ISO 178
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
	@Thickness 4.00 mm	@Thickness 0.157 in	
Izod Impact, Notched (ISO)	12.0 kJ/mÂ² @Temperature 23.0 Â°C	5.71 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/A
Charpy Impact, Notched	1.80 J/cmÂ² @Temperature 23.0 Â°C	8.57 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	95.0 Â°C	203 Â°F	IEC 60335-1
Deflection Temperature at 0.46 MPa (66 psi)	90.0 Â°C	194 Â°F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C	176 Â°F	Unannealed; ISO 75-2/A
Vicat Softening Point	98.0 Â°C	208 Â°F	ISO 306/B50
	105 Â°C	221 Â°F	ISO 306/A120
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	All Colors
	V-0 @Thickness 2.50 mm	V-0 @Thickness 0.0984 in	Natural plus Color Concentrate
Glow Wire Test	800 Â°C @Thickness 2.00 mm	1470 Â°F @Thickness 0.0787 in	Ignition; IEC 60695-2-13
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	Index; IEC 60695-2-12

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 Â°C	464 - 536 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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