

Styron EMERGE[®],ç 7600 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

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

Material Notes:

Overview: EMERGE[®],ç PC/ABS 7600 is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. It combines the superior physical properties of PC & the excellent processability of ABS, resulting in high toughness and high flow. This resin is suitable for use in a wide range of applications. EMERGE PC/ABS 7600 Natural has undergone biocompatibility testing based on ISO 10993 (Parts 5 & 10) and is suitable for use in medical equipment housings. Main Characteristics: Ignition-Resistant Chlorine and Bromine Free ISO 10993 (Parts 5 & 10) Applications: Medical equipment housings Information technology equipment Consumer electronics Office and business equipment Retail sales equipment Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-EMERGE-7600-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	19 g/10 min @Load 3.80 kg, Temperature 230 °C	19 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118 @Thickness 3.20 mm	118 @Thickness 0.126 in	Injection Molded; ASTM D785
Tensile Strength at Break	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Strength, Yield	55.2 MPa @Thickness 3.20 mm	8010 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Break	80 % @Thickness 3.20 mm	80 % @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Yield	4.0 % @Thickness 3.20 mm	4.0 % @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Modulus	2.69 GPa @Thickness 3.20 mm	390 ksi @Thickness 0.126 in	Injection Molded; ASTM D638
Flexural Strength	88.9 MPa	12900 psi	Injection Molded; ASTM D790

Mechanical Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Flexural Modulus	2.83 GPa @Thickness 3.20 mm	410 ksi @Thickness 0.126 in	Injection Molded; ASTM D790
Izod Impact, Notched	5.90 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	11.1 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	87.2 Å°C	189 Å°F	IEC 60335-1
Deflection Temperature at 0.46 MPa (66 psi)	87.8 Å°C @Thickness 3.20 mm	190 Å°F @Thickness 0.126 in	Unannealed, Injection Molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.2 Å°C @Thickness 3.20 mm	171 Å°F @Thickness 0.126 in	Unannealed, Injection Molded; ASTM D648
Vicat Softening Point	102 Å°C @Load 1.02 kg	216 Å°F @Load 2.25 lb	Rate B (120Å°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	
Oxygen Index	31 %	31 %	ASTM D2863
Glow Wire Test	825 Å°C @Thickness 2.00 mm	1520 Å°F @Thickness 0.0787 in	Ignition; IEC 60695-2-13
	950 Å°C @Thickness 2.00 mm	1740 Å°F @Thickness 0.0787 in	Index; IEC 60695-2-12

Processing Properties	Metric	English	Comments
Melt Temperature	221 Å°C	430 Å°F	Aim
	216 - 241 Å°C	421 - 466 Å°F	
Mold Temperature	60.0 - 71.1 Å°C	140 - 160 Å°F	
Drying Temperature	79.4 Å°C	175 Å°F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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