

Styron PULSE 2000 EZ PC/ABS Engineering Resin

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

Material Notes:

Overview: PULSE 2000 Engineering Resin is designed to provide top performance in tough applications, from single piece items to intricate components. Ideal for energy management solutions, it can withstand high and low temperature extremes and rapid, repeated temperature fluctuations. Benefits: Instrument panels, Knee bolsters, Retainers, Interior trim. Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-PULSE-2000-EZ-PCABS-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792; ISO 1183/B
Water Absorption	0.15 %	0.15 %	ASTM D570; ISO 62
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
	18 g/10 min	18 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	50 mm/min; ASTM D638
	47.0 MPa	6820 psi	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Tensile Strength, Yield	58.0 MPa	8410 psi	50 mm/min; ASTM D638
	57.0 MPa	8270 psi	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Break	160 %	160 %	ASTM D638
	90 %	90 %	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Yield	4.5 %	4.5 %	Injection Molded; ISO 527-2/50
	@Thickness 4.00 mm	@Thickness 0.157 in	
	2.33 GPa	338 ksi	

Tensile Modulus Mechanical Properties	Metric @ Thickness 4.00 mm	English @ Thickness 0.157 in	Injection Molded; ISO 527-2 Comments
Flexural Strength	90.0 MPa @Thickness 4.00 mm	13100 psi @Thickness 0.157 in	Injection Molded, 2 mm/min; ISO 178
Flexural Modulus	2.45 GPa	355 ksi	1.3 mm/min.; ASTM D790
	2.40 GPa @Thickness 4.00 mm	348 ksi @Thickness 0.157 in	Injection Molded, 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	0.590 kJ/m ² @Temperature -30.0 °C	0.281 ft-lb/in ² @Temperature -22.0 °F	ASTM D256
	0.750 kJ/m ² @Temperature 23.0 °C	0.357 ft-lb/in ² @Temperature 73.4 °F	ASTM D256
	47.0 kJ/m ² @Temperature -30.0 °C	22.4 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	63.0 kJ/m ² @Temperature 23.0 °C	30.0 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Dart Drop, Total Energy	62.0 J	45.7 ft-lb	2.2 m/sec; ASTM D3763
	55.0 J @Temperature 23.0 °C	40.6 ft-lb @Temperature 73.4 °F	2.2 m/sec; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	109 °C	228 °F	Unannealed; ASTM D648
	130 °C	266 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	Unannealed; ISO 75-2/A
Vicat Softening Point	129 °C	264 °F	ISO 306/B50
	142 °C	288 °F	ISO 306/A120
Flame Spread	<= 100 mm/min	<= 3.94 in/min	FMVSS 305

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