Styron PULSEâ„¢ 2100 LG PC/ABS Engineering Resin

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

Material Notes:

Overview: PULSE 2100LG 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:Low gloss appearance-20Â°F DuctilityWide range of performanceSuperior processabilityLot to lot consistencyGood chemical resistanceInformation provided by Styron

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-PULSE-2100-LG-PCABS-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/inÂ³	ASTM D792; ISO 1183/B
Water Absorption	0.15 % @Temperature 23.0 Â°C, Time 86400 sec	0.15 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	0.0060 cm/cm	0.0060 in/in	ISO 294-4
Melt Flow	4.5 g/10 min @Load 3.80 kg, Temperature 230 Â°C	4.5 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238
	4.5 g/10 min @Load 3.80 kg, Temperature 260 Â°C	4.5 g/10 min @Load 8.38 lb, Temperature 500 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.8 MPa @Thickness 3.20 mm	7800 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO 527-2
	53.1 MPa @Thickness 3.20 mm	7700 psi @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Break	120 %	120 %	ISO 527-2
	130 % @Thickness 3.20 mm	130 % @Thickness 0.126 in	Injection Molded; ASTM D638
Elongation at Yield	4.5 %	4.5 %	ISO 527-2

Mechanical Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	Injection Molded; ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	ISO 527-2
	2.34 GPa @Thickness 3.20 mm	339 ksi @Thickness 0.126 in	Injection Molded; ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ISO 178
	80.7 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	Injection Molded; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
	2.34 GPa @Thickness 3.20 mm	339 ksi @Thickness 0.126 in	Injection Molded; ASTM D790
Izod Impact, Notched	5.30 J/cm @Thickness 3.20 mm, Temperature -29.0 Â°C	9.93 ft-lb/in @Thickness 0.126 in, Temperature -20.2 Â°F	Injection Molded; ASTM D256
	6.40 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	12.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	Injection Molded; ASTM D256
Izod Impact, Notched (ISO)	24.0 kJ/mÂ² @Temperature -40.0 Â°C	11.4 ft-lb/inÂ² @Temperature -40.0 Â°F	ISO 180
	32.0 kJ/mÂ² @Temperature -30.0 Â°C	15.2 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180
	52.0 kJ/mÂ² @Temperature 23.0 Â°C	24.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180
Dart Drop, Total Energy	56.5 J @Thickness 3.20 mm, Temperature 23.0 Â°C	41.7 ft-lb @Thickness 0.126 in, Temperature 73.4 Â°F	6.6 m/sec; ASTM D3763
	62.1 J @Thickness 3.20 mm, Temperature -29.0 Â°C	45.8 ft-lb @Thickness 0.126 in, Temperature -20.2 Â°F	6.6 m/sec; ASTM D3763

Thermal Properties	Metric	English	Comments
	74.0 Âµm/m-Â°C	41.1 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 82.0 Â°C	@Temperature -40.0 - 180 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	128 Â°C @Thickness 3.20 mm	262 Â°F @Thickness 0.126 in	Unannealed; ISO 75-2/B
	129 Â°C @Thickness 3.20 mm	264 Â°F @Thickness 0.126 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	Unannealed; ISO 75-2/A
	107 Â°C @Thickness 3.20 mm	225 Â°F @Thickness 0.126 in	Unannealed; ASTM D648
Vicat Softening Point	128 Â°C	262 Â°F	ISO 306/B50
	142 Â°C	288 Â°F	ISO 306/A120
	143 Â°C @Load 5.10 kg	289 Â°F @Load 11.2 lb	Rate A (50Â°C/h); ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	25 %	25 %	Gardner, 60Â°, Smooth; ASTM D542

Descriptive Properties	Value	Comments
GMCP88 - Light Stipple	0.065	ASTM D524
Monticello	0.033	ASTM D524

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China