

Styron PULSE™ EXT 100 PC/ABS Engineering Resin

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

Material Notes:

Overview: PULSE EXT 100 engineering resin has been designed to provide excellent processability, high heat resistance, and high impact strength at both room and low temperatures. PULSE EXT 100 engineering resin has been used in automotive exterior trim applications. Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-PULSE-EXT-100-PCABS-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Melt Density	1.02 g/cc	0.0368 lb/in ³	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	1.3 g/10 min @Load 3.80 kg, Temperature 230 °C	1.3 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	80 %	80 %	Type I, 51 mm/min; ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	ASTM D790
Izod Impact, Notched	4.80 J/cm @Thickness 3.20 mm, Temperature -29.0 °C	8.99 ft-lb/in @Thickness 0.126 in, Temperature -20.2 °F	0.25 mm Notch Depth, Injection Molded; ASTM D256
	6.40 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	12.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	0.25 mm Notch Depth, Injection Molded; ASTM D256
Dart Drop, Total Energy	54.2 J @Thickness 3.20 mm, Temperature 23.0 °C	40.0 ft-lb @Thickness 0.126 in, Temperature 73.4 °F	3.39 m/sec; ASTM D3763
	59.9 J @Thickness 3.20 mm, Temperature -29.0 °C	44.2 ft-lb @Thickness 0.126 in, Temperature -20.2 °F	3.39 m/sec; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 82.0 $^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 180 $^\circ\text{F}$	ASTM D696
Specific Heat Capacity	1.98 J/g- $^\circ\text{C}$	0.473 BTU/lb- $^\circ\text{F}$	Melt; ASTM C351
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² - $^\circ\text{F}$	Melt; ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	124 $^\circ\text{C}$	255 $^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 $^\circ\text{C}$	225 $^\circ\text{F}$	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Ejection Temperature	138 $^\circ\text{C}$	
No Flow Temperature	160 $^\circ\text{C}$	

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