

Styron Pulse[®] EXT 100 ABS + Polycarbonate

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

Material Notes:

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 EXT100 Engineering resin has been used in automotive exterior trim applications. Data provided by Dow Chemical. This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Pulse-EXT-100-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM Data
Melt Density	1.02 g/cc	0.0368 lb/in ³	Melt density
Water Absorption	0.15 %	0.15 %	
Moisture Absorption at Equilibrium	0.32 %	0.32 %	Humidity Absorption
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Melt Flow	2.0 g/10 min @Load 3.80 kg, Temperature 230 °C	2.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	
Tensile Strength, Ultimate	48.3 MPa	7010 psi	ASTM Data
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM Data
Elongation at Break	100 %	100 %	ASTM Data
Elongation at Yield	4.8 %	4.8 %	ISO Data
Tensile Modulus	2.10 GPa	305 ksi	ISO Data.
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM Data
	5.34 J/cm @Temperature -50.0 °C	10.0 ft-lb/in @Temperature -58.0 °F	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp

Charpy Impact, Notched Mechanical Properties	Metric	English	ISO Data, Low Temp Comments
	6.10 J/cm ²	29.0 ft-lb/in ²	ISO Data
Impact Test	50.9 J	37.5 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	50.9 J	37.5 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åm/m-Å°C	38.9 Åin/in-Å°F	ASTM data
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Specific Heat Capacity	1.98 J/g-Å°C	0.473 BTU/lb-Å°F	
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÅ ² - Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	132 Å°C	270 Å°F	Unannealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	113 Å°C	235 Å°F	Unannealed; ASTM Data

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