

Styron Pulse® B250 ABS + Polycarbonate

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

Material Notes:

PULSE® B250 Engineering resin has been designed to provide a customized balance of low coefficient of linear thermal expansion, low temperature toughness and Class A surface finish paintability. PULSE B250 Engineering resin has been used in automotive body panel 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-B250-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM Data
Melt Density	1.02 g/cc	0.0368 lb/in ³	Melt density
Water Absorption	0.050 %	0.050 %	
Moisture Absorption at Equilibrium	0.18 %	0.18 %	Humidity Absorption
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	
Melt Flow	2.1 g/10 min @Load 3.80 kg, Temperature 230 °C	2.1 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.3 MPa	7590 psi	ASTM Data
Tensile Strength, Yield	54.5 MPa	7900 psi	ASTM Data
Elongation at Break	104 %	104 %	ASTM Data
Elongation at Yield	3.5 %	3.5 %	ISO Data
Tensile Modulus	3.10 GPa	450 ksi	ISO Data.
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM Data
	0.747 J/cm @Temperature -50.0 °C	1.40 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	0.800 J/cm ²	3.81 ft-lb/in ²	ISO Data, Low Temp

Mechanical Properties	4.30 J/cm ² Metric	20.5 ft-lb/in ² English	ISO Data Comments
Impact Test	50.9 J @Temperature -30.0 °C	37.5 ft-lb @Temperature -22.0 °F	Instrumented Dart Total Energy
	50.9 J @Temperature 23.0 °C	37.5 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 Åµm/m-Å°C @Temperature 20.0 Å°C	35.0 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM data
Specific Heat Capacity	1.82 J/g-Å°C	0.435 BTU/lb-Å°F	
Thermal Conductivity	0.207 W/m-K	1.44 BTU-in/hr-ftÅ²- Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	126 Å°C	259 Å°F	Unannealed; ASTM Data
	129 Å°C	264 Å°F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	Unannealed; ASTM Data
Vicat Softening Point	139 Å°C	282 Å°F	

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