

Styron Pulse® 1310 ABS + Polycarbonate

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

Material Notes:

PULSE® 1310 Engineering resin offers a superior total performance with a balance of heat resistance, practical toughness, high and low temperature impact strength retention and ease of processing. PULSE 1310 Engineering resin is UL listed. 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-1310-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM Data
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	5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	
Tensile Strength, Ultimate	48.3 MPa	7010 psi	ASTM Data
Tensile Strength, Yield	53.1 MPa	7700 psi	ASTM Data
Elongation at Break	100 %	100 %	ASTM Data
Elongation at Yield	4.1 %	4.1 %	ISO Data
Tensile Modulus	2.30 GPa	334 ksi	ISO Data.
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	ASTM Data
	4.80 J/cm @Temperature -50.0 °C	8.99 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	1.50 J/cm ²	7.14 ft-lb/in ²	ISO Data, Low Temp

Mechanical Properties	6.50 J/cm ² Metric	30.9 ft-lb/in ² English	ISO Data Comments
Impact Test	56.5 J	41.7 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	56.5 J	41.7 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM data
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	96.1 Â°C	205 Â°F	Unannealed; 107Â°C (225Â°F) annealed; ASTM Data
Vicat Softening Point	137 Â°C	279 Â°F	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

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