

Styron Pulse® 840P ABS + Polycarbonate

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

Material Notes:

PULSE® 840P Engineering resin has been designed to provide excellent processability, high heat resistance, and high impact strength at both room and low temperatures. PULSE 840P Engineering resin has been used in automotive instrument panel and interior 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-840P-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM Data
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
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	10.0 ft-lb/in	ASTM Data
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	2.40 J/cm ²	11.4 ft-lb/in ²	ISO Data, Low Temp
	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	

Mechanical Properties	50.9 J Metric	27.5 ft·lb English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	Unannealed; ASTM Data

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