

Styron Pulse® 710 ABS + Polycarbonate

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

Material Notes:

PULSE® 710 Engineering resin has been designed to provide excellent processability, high heat resistance, and high impact strength at both room and low temperatures. PULSE 710 Engineering resin has been used in automotive 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-710-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM Data
Melt Density	1.01 g/cc	0.0365 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	4.0 g/10 min @Load 3.80 kg, Temperature 230 °C	4.0 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	44.8 MPa	6500 psi	ASTM Data
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM Data
Elongation at Break	125 %	125 %	ASTM Data
Elongation at Yield	3.7 %	3.7 %	ISO Data
Tensile Modulus	2.00 GPa	290 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, Low Temp
	NB	NB	ISO Data

Charpy Impact, Notched Mechanical Properties	6.20 J/cm ² Metric	29.5 ft-lb/in ² English	ISO Data, Low Temp Comments
	7.90 J/cm ²	37.6 ft-lb/in ²	ISO Data
Impact Test	56.5 J	41.7 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	62.2 J	45.9 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 µm/m-°C	41.0 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	2.54 J/g-°C	0.607 BTU/lb-°F	
Thermal Conductivity	0.233 W/m-K	1.62 BTU-in/hr-ft ² - °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	Unannealed; 113°C (235°F) annealed; ASTM Data

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