

Styron Pulse® 759 ABS + Polycarbonate, 15% Glass Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

PULSE® 759 Engineering resin is a 15% glass reinforced resin designed to provide excellent processability, high heat resistance, and practical toughness. PULSE 759 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-759-ABS-Polycarbonate-15-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM Data
Melt Density	0.962 g/cc	0.0348 lb/in ³	Melt density
Water Absorption	0.15 %	0.15 %	
Moisture Absorption at Equilibrium	0.32 %	0.32 %	Humidity Absorption
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	
Melt Flow	2.4 g/10 min @Load 3.80 kg, Temperature 230 °C	2.4 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	
Tensile Strength, Ultimate	82.7 MPa	12000 psi	ASTM Data
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM Data
Elongation at Break	2.6 %	2.6 %	ASTM Data
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM Data
	0.854 J/cm @Temperature -50.0 °C	1.60 ft-lb/in @Temperature -58.0 °F	ASTM Data
Impact Test	6.22 J @Temperature -30.0 °C	4.59 ft-lb @Temperature -22.0 °F	Instrumented Dart Total Energy
	11.3 J @Temperature 23.0 °C	8.33 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	32.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM data
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	1.66 J/g- $^{\circ}\text{C}$	0.397 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.142 W/m-K	0.985 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	116 $^{\circ}\text{C}$	241 $^{\circ}\text{F}$	Unannealed; 127 $^{\circ}\text{C}$ (261 $^{\circ}\text{F}$) annealed; ASTM Data
Vicat Softening Point	138 $^{\circ}\text{C}$	280 $^{\circ}\text{F}$	

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