

Styron Pulse® 959 ABS + Polycarbonate, 10% Glass Reinforced

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

Material Notes:

PULSE® 959 Engineering resin is a 10% glass reinforced resin designed to provide excellent processability, high heat resistance, and practical toughness. PULSE 959 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-959-ABS-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM Data
Melt Density	1.05 g/cc	0.0379 lb/in ³	Melt density
Water Absorption	0.15 %	0.15 %	
Moisture Absorption at Equilibrium	0.32 %	0.32 %	Humidity Absorption
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Melt Flow	1.5 g/10 min @Load 3.80 kg, Temperature 230 °C	1.5 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	50.4 MPa	7310 psi	ASTM Data
Tensile Strength, Yield	48.8 MPa	7080 psi	ASTM Data
Elongation at Break	4.0 %	4.0 %	ASTM Data
Elongation at Yield	3.4 %	3.4 %	ISO Data
Tensile Modulus	3.80 GPa	551 ksi	ISO Data.
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM Data
	0.801 J/cm @Temperature -50.0 °C	1.50 ft-lb/in @Temperature -58.0 °F	ASTM Data
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO Data, Low Temp
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO Data

Charpy Impact, Notched Mechanical Properties	Metric	English	ISO Data, Low Temp Comments
	1.80 J/cm ²	8.57 ft-lb/in ²	ISO Data
Impact Test	5.65 J	4.17 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.4 J	9.15 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 µm/m-°C	32.0 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	2.15 J/g-°C	0.514 BTU/lb-°F	
Thermal Conductivity	0.228 W/m-K	1.58 BTU-in/hr-ft ² - °F	
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	Unannealed; 127°C (261°F) annealed; ASTM Data

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China