

Styron Pulse® 1550 ABS + Polycarbonate, 10% Glass Reinforced

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

Material Notes:

PULSE® 1550 Engineering resin is a 10% glass reinforced resin which offers a superior total performance with a balance of high heat resistance, practical toughness and ease of processing. 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-1550-ABS-Polycarbonate-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM Data
Melt Density	1.09 g/cc	0.0394 lb/in ³	Melt density
Water Absorption	0.15 %	0.15 %	
Moisture Absorption at Equilibrium	0.32 %	0.32 %	Humidity Absorption
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	
Melt Flow	3.0 g/10 min @Load 3.80 kg, Temperature 230 °C	3.0 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	46.9 MPa	6800 psi	ASTM Data
Tensile Strength, Yield	53.8 MPa	7800 psi	ASTM Data
Elongation at Break	10 %	10 %	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
	1.60 J/cm @Temperature -50.0 °C	3.00 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	0.800 J/cm ² Metric	3.81 ft-lb/in ² English	ISO Data, Low Temp Comments
	1.80 J/cm ²	8.57 ft-lb/in ²	ISO Data
Impact Test	17.0 J	12.5 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	17.0 J	12.5 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	2.10 J/g-°C	0.502 BTU/lb-°F	
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² - °F	
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Unannealed; 129°C (264°F) annealed; ASTM Data
Vicat Softening Point	144 °C	291 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0579 in	

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