

## Styron Pulse<sup>®</sup> 930 ABS + Polycarbonate

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

### Material Notes:

PULSE<sup>®</sup> 930 Engineering resin has been designed to provide excellent processability, high heat resistance, and high impact strength at room temperature. PULSE 930 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-930-ABS-Polycarbonate.php](http://www.lookpolymers.com/polymer_Styron-Pulse-930-ABS-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM Data
Melt Density	0.998 g/cc	0.0361 lb/in <sup>3</sup>	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	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	108	108	
Tensile Strength, Ultimate	55.2 MPa	8010 psi	ASTM Data
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM Data
Elongation at Break	100 %	100 %	ASTM Data
Elongation at Yield	4.2 %	4.2 %	ISO Data
Tensile Modulus	2.40 GPa	348 ksi	ISO Data.
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM Data
	2.67 J/cm @Temperature -50.0 °C	5.00 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	2.20 J/cm <sup>2</sup> Metric	10.5 ft-lb/in <sup>2</sup> English	ISO Data, Low Temp Comments
	5.60 J/cm <sup>2</sup>	26.7 ft-lb/in <sup>2</sup>	ISO Data
Impact Test	56.5 J @Temperature -30.0 °C	41.7 ft-lb @Temperature -22.0 °F	Instrumented Dart Total Energy
	56.5 J @Temperature 23.0 °C	41.7 ft-lb @Temperature 73.4 °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	1.85 J/g-°C	0.442 BTU/lb-°F	
Thermal Conductivity	0.227 W/m-K	1.58 BTU-in/hr-ft <sup>2</sup> - °F	
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Unannealed; ASTM Data
	121 °C	250 °F	annealed; ASTM Data

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