

Styron Pulse® 2000 ABS + PC

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

Information provided by DowThis 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-2000-ABS-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	23Â°C, 24hrs; ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 3.80 kg, Temperature 230 Â°C	7.0 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	54.5 MPa	7900 psi	ASTM D638
Tensile Strength, Yield	53.1 MPa	7700 psi	ASTM D638
Elongation at Break	125 %	125 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	84.1 MPa	12200 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	5.34 J/cm	10.0 ft-lb/in	-20Â°F; ASTM D256
	6.41 J/cm	12.0 ft-lb/in	73Â°F; ASTM D256
Dart Drop, Total Energy	62.0 J @Temperature 22.8 Â°C	45.7 ft-lb @Temperature 73.0 Â°F	ASTM D3763
	67.0 J @Temperature -28.9 Â°C	49.4 ft-lb @Temperature -20.0 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear	73.8 Âµm/m-Â°C Metric	41.0 Âµin/in-Â°F English	Comments ASTM D696
	@Temperature -40.0 - 82.2 Â°C	@Temperature -40.0 - 180 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	129 Â°C	265 Â°F	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	unannealed; ASTM D648
Vicat Softening Point	143 Â°C	290 Â°F	ASTM D1525

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