

Styron Pulse® 2200BG 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-2200BG-ABS-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.53 %	0.53 %	23°C, 24hrs; ASTM D570
Linear Mold Shrinkage	>= 0.0060 cm/cm	>= 0.0060 in/in	ASTM D955
Melt Flow	4.0 g/10 min @Load 3.80 kg, Temperature 230 °C	4.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.7 MPa	7650 psi	ASTM D638
Tensile Strength, Yield	53.8 MPa	7800 psi	ASTM D638
Elongation at Break	115 %	115 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	83.4 MPa	12100 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	4.00 J/cm	7.50 ft-lb/in	-20°F; ASTM D256
	6.94 J/cm	13.0 ft-lb/in	73°F; ASTM D256
Dart Drop, Total Energy	53.0 J @Temperature 22.8 °C	39.1 ft-lb @Temperature 73.0 °F	ASTM D3763
	54.0 J @Temperature -28.9 °C	39.8 ft-lb @Temperature -20.0 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear</i>	72.0 Åum/m-Å°C Metric	40.0 Åuin/in-Å°F English	Comments ASTM D696
	@Temperature -40.0 - 82.2 Å°C	@Temperature -40.0 - 180 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	129 Å°C	265 Å°F	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	unannealed; ASTM D648
Vicat Softening Point	144 Å°C	291 Å°F	ASTM D1525

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