

Styron PULSE, 2300 PT PC/ABS Engineering Resin

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

Material Notes:

Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-PULSE-2300-PT-PCABS-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	0.15 % @Temperature 23.0 °C, Time 86400 sec	0.15 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	1.0 g/10 min @Load 3.80 kg, Temperature 230 °C	1.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7010 psi	ASTM D638
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	ASTM D790
Izod Impact, Notched	4.80 J/cm @Temperature -29.0 °C	8.99 ft-lb/in @Temperature -20.2 °F	ASTM D256
	6.40 J/cm @Temperature 23.0 °C	12.0 ft-lb/in @Temperature 73.4 °F	ASTM D256
Dart Drop, Total Energy	54.2 J @Temperature 23.0 °C	40.0 ft-lb @Temperature 73.4 °F	2.24 m/sec, 3 in support, 0.5 in dart; ASTM D3763
	59.9 J @Temperature -29.0 °C	44.2 ft-lb @Temperature -20.2 °F	2.24 m/sec, 3 in support, 0.5 in dart; ASTM D3763

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -29.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature -20.2 - 212 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	124 $\text{Å}^\circ\text{C}$	255 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 $\text{Å}^\circ\text{C}$	225 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

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