

Styron CALIBRE™ IM 401-18 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Information provided by Dow 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-CALIBRE-IM-401-18-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Melt Flow	18 g/10 min @Load 1.20 kg, Temperature 300 °C	18 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	0.125 in; 10 mil notch; ASTM D256
	3.74 J/cm @Temperature -30.0 °C	7.00 ft-lb/in @Temperature -22.0 °F	0.125 in; 10 mil notch; ASTM D256
Tensile Impact Strength	588 kJ/m ²	280 ft-lb/in ²	ASTM D1822, Type S
Dart Drop, Total Energy	51.0 J	37.6 ft-lb	0.1 in thick, 15 mph; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	Unannealed, 0.125 in; ASTM D648
	136 °C	277 °F	annealed; ASTM D648
Vicat Softening Point	146 °C	295 °F	50 °C/hr, 50N Load; ASTM D1525
Flammability, UL94	V-2	V-2	0.0625 in
	V-2	V-2	0.125 in

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