

## Styron CALIBRE™ IM 401-11 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-401-11-Polycarbonate.php](http://www.lookpolymers.com/polymer_Styron-CALIBRE-IM-401-11-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	11 g/10 min @Load 1.20 kg, Temperature 300 Â°C	11 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.8 MPa	8100 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	6.94 J/cm	13.0 ft-lb/in	0.125 in; 10 mil notch; ASTM D256
	5.34 J/cm @Temperature -30.0 Â°C	10.0 ft-lb/in @Temperature -22.0 Â°F	0.125 in; 10 mil notch; ASTM D256
Tensile Impact Strength	630 kJ/mÂ²	300 ft-lb/inÂ²	ASTM D1822, Type S
Dart Drop, Total Energy	57.0 J	42.0 ft-lb	0.1 in thick, 15 mph; ASTM D1822

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

## **Contact Songhan Plastic Technology Co.,Ltd.**

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