

Styron CALIBRE[®] 7100-15 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

CALIBRE[®] 7100-15 glass-reinforced resin offers increased modulus and improved heat distortion resistance, with minimal shrinkage. It also offers outstanding UL-94 flammability ratings. CALIBRE[®] 7100-15 additive package: No mold release. 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-7100-15-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183B
Linear Mold Shrinkage, Transverse	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ISO 294-4
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 °C	15 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	57.0 MPa	8270 psi	50 mm/min; ISO 527-2
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527-2
Elongation at Break	6.0 %	6.0 %	50 mm/min; ISO 527-2
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527-2
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ISO 180/A
Charpy Impact, Notched	0.850 J/cm ²	4.05 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Vicat Softening Point	150 °C	302 °F	50 °C/hr, 50N; ISO 306-B50
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	
Ring & Ball Softening Point	>= 125 °C	>= 257 °F	IEC 60335-1

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V	175 V	IEC 60112

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