

Styron CALIBRE[®] 280-25 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

CALIBRE[®] PC Utility Grade 280-15 is a high flow opaque polycarbonate with an internal mold release system. Applications: Internal parts
Electrical Electronics Lightning 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-280-25-Polycarbonate.php

Physical Properties	Metric	English	Comments
Melt Flow	25 g/10 min	25 g/10 min	ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527-2
Elongation at Break	120 %	120 %	50 mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2
Izod Impact, Notched	6.00 J/cm	11.2 ft-lb/in	ISO 180/4A
Izod Impact, Unnotched	NB	NB	ISO 180/4A
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	134 °C	273 °F	unannealed; ISO 75-B
	140 °C	284 °F	annealed; ISO 75-B
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	unannealed; ISO 75-A
	137 °C	279 °F	annealed; ISO 75-A
Vicat Softening Point	139 °C	282 °F	50 °C/hr, 50N; ISO 306-B50
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
Glow Wire Test	@Thickness 2.00 mm	@Thickness 0.0787 in	VDE 0471 Part 2

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