

Styron CALIBRE[®],ç 200-10 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBRE[®],ç 200-10 Series are produced in compliance with the US Food and Drug Administration (FDA) and EU food contact regulations. They provide excellent impact resistance, heat distortion resistance and optical clarity. The CALIBRE[®],ç 200-10 series products are available in 2 additive packages: CALIBRE[®],ç 200: No mold release or UV Stabilizer. CALIBRE[®],ç 201: Mold release.

Applications: Food and processor housings Liquid containers Food utensils Packaging applications Govt. and Industry Standards: US FDA 21 CFR 177.1580 Underwriters Laboratory (UL) EU food contact 2002/72/EC Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-200-10-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183/A
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	ISO 527-2/50
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2/50
Elongation at Break	150 %	150 %	ISO 527-2/50
Elongation at Yield	6.0 %	6.0 %	ISO 527-2/50
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2/50
Flexural Strength	97.0 MPa	14100 psi	2.0 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2.0 mm/min; ISO 178
Izod Impact, Notched (ISO)	88.0 kJ/m ² @Temperature 23.0 Â°C	41.9 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180/4A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 180

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test			IEC 60335-1

Thermal Properties	125 Â°C Metric	257 Â°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	144 Â°C	291 Â°F	Annealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	125 Â°C	257 Â°F	Unannealed; ISO 75-2/A
	141 Â°C	286 Â°F	Annealed; ISO 75-2/A
Vicat Softening Point	149 Â°C	300 Â°F	ISO 306/B50
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	87 - 91 %	87 - 91 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	IEC 60112
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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