

Styron CALIBRE[®],ç 201-10 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Overview: CALIBRE[®],ç 201-10 is produced in compliance with the US Food and Drug Administration (FDA) and EU food contact regulations. It provides excellent impact resistance, heat distortion resistance and optical clarity. CALIBRE[®],ç 201-10 product is formulated with mold releaseApplications:Food utensilsLiquid containersFood processor housings Packaging applicationsGovt. and Industry Standards:US FDA 21 CFR 177.1580CSAUnderwriters Laboratory (UL)EU food contact 2002/72/ECInformation provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-201-10-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	125 Â°C	257 Â°F	IEC 60335-1

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	144 Â°C	291 Â°F	Annealed; ISO 75-2/B
	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 - 97 %	87 - 97 %	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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