

CALIBRE™ 201-10

Polycarbonate Resin

Overview

CALIBRE™ 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 201-10 product is formulated with mold release.

Govt. and Industry Standards:

- U.S. FDA 21 CFR 177.1580
- Underwriters Laboratory (UL)
- EU food contact 2011/10/EC

Applications:

- Food and processor housings
- Liquid containers
- Food utensils
- Packaging applications

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 g/10 min	10 g/10 min	ISO 1133
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield	8700 psi	60.0 MPa	
Break	10300 psi	71.0 MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0 %	6.0 %	
Break	150 %	150 %	
Flexural Modulus ¹	348000 psi	2400 MPa	ISO 178
Flexural Stress ¹	14100 psi	97.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	42 ft-lb/in ²	88 kJ/m ²	ISO 180/4A
Unnotched Izod Impact Strength (73°F (23°C))	No Break	No Break	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Annealed	291 °F	144 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	257 °F	125 °C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	286 °F	141 °C	ISO 75-2/A
Vicat Softening Temperature	300 °F	149 °C	ISO 306/B50
Ball Indentation Temperature	257 °F	125 °C	IEC 60335-1
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index			IEC 60112
0.0787 in (2.00 mm)	250 V	250 V	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ²			UL 94
0.06 in (1.6 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Transmittance	87.0 to 91.0 %	87.0 to 91.0 %	ASTM D1003

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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