CALIBRE™ 200-10
Polycarbonate Resin

Overview

CALIBRE™ 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 200-10 series products are available in 2 additive packages: CALIBRE 200: No mold release or UV Stabilizer. CALIBRE 201: 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

Automotive Specifications

- FORD ESF-M4D100-A1

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.20	g/cm³	1.20	g/cm³	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/in²	88	kJ/m²	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