

CALIBRE™ 200-8

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 200-8 Series polycarbonate resins 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 as well as high melt strength for sheet extrusion applications. The CALIBRE 200-8 series products are available in 2 additive packages: CALIBRE 200: No mold release. CALIBRE 201: Mold release.

Govt. and Industry Standards:

- U.S. FDA 21 CFR 177.1580
- Underwriters Laboratory (UL)
- EU food contact 2002/72/EC

Applications:

- Food processor housings
- Liquid containers
- Chocolate moulds
- Custom sheet
- Food utensils
- Bottles
- Packaging applications

General Information			
UL YellowCard	E54680-469960	E157291-238219	E206114-228275
Features	Food Contact Acceptable		
	Good Melt Strength		
	High Clarity		
	High Impact Resistance		
Uses	Containers		
	Housings		
	Kitchenware		
	Packaging		
	Sheet		
Agency Ratings	EU 2002/72/EC		
	FDA 21 CFR 177.1580		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2300	MPa	ISO 527-2/50
Tensile Stress			ISO 527-2/50
Yield	60.0	MPa	
Break	71.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	150	%	
Flexural Modulus ¹	2400	MPa	ISO 178
Flexural Stress ²	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	88	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	144	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
1.8 MPa, Annealed	141	°C	ISO 75-2/A
Vicat Softening Temperature	149	°C	ISO 306/B50
Ball Indentation Temperature	125	°C	IEC 60335-1
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (2.00 mm)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³			UL 94
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Ignition Temperature ⁴ (2.00 mm, 5.0 sec)	850	°C	IEC 60695-2-13
Optical	Nominal Value	Unit	Test Method
Transmittance	87.0 to 91.0	%	ASTM D1003
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
4.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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