CALIBRE™ 200-14

Trinseo - Polycarbonate Resin

General Information

Product Description

CALIBRE™ 200-14 polycarbonate resins are produced in compliance with the US Food and Drug Administration (FDA) and EU food contact regulations. This material offers excellent impact resistance, heat distortion resistance and optical clarity. CALIBRE 200-14 contains no mold release or UV Stabilizer and is available in natural transparent colour only.

Govt. and Industry Standards:

- Europe Commission Regulation (EU) No 10/2011
- U.S. FDA 21 CFR 177.1580 (with Restrictions)
- Underwriters Laboratory, Inc. (UL)

Applications:

- Blending, compounding
- Appliances and food processors
- Housewares and food utensils
- Beverage containers
- Packaging applications

General

Features	• Food Contact Acceptable • High Clarity	• High Impact Resistance • Medium Flow	
Uses	• Blending • Compounding	• Film • Food Service Applications	• Sheet • Transparent Parts
Agency Ratings	• CSA	• EU 2011/10/EC	• FDA 21 CFR 177.1580
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Compounding • Film Extrusion	• Injection Molding • Sheet Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	g/10 min	ISO 1133
Water Absorption (Saturation, 73°F)	0.32	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.12	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	334000	psi	ISO 527-1/1
Tensile Stress (Yield)	8700	psi	ISO 527-2/50
Tensile Stress (Break)	10300	psi	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Tensile Strain (Break)	130	%	ISO 527-2/50
Flexural Modulus [2]	348000	psi	ISO 178
Flexural Stress [2]	14100	psi	ISO 178

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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in²	
73°F	12	ft·lb/in²	
Notched Izod Impact (73°F)	16	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	39	ft·lb/in²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	255	°F	
Vicat Softening Temperature	298	°F	ISO 306/B50
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.586		ISO 489
Light Transmittance	87.0 to 91.0	%	ASTM D1003
Haze	< 1.00	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min