

CALIBRE™ 2061-10

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 2061-10 resin is suitable for steam and ethylene oxide sterilization required by the health care industry. CALIBRE 2061-10 provides exceptional clarity, heat resistance, impact strength, processability, and has low contamination levels. CALIBRE 2061-10 resin is compliant with ISO 10993 (Biological Evaluation of Medical Devices) and is suitable for use in approved medical applications. This product contains mold release.

Main Characteristics:

Tested under ISO 10993

Applications:

Medical applications

General Information			
UL YellowCard	E54680-101090285		
Additive	Mold Release		
Features	Ethylene Oxide Sterilizable		
	Good Processability		
	High Clarity		
	High Heat Resistance		
	High Impact Resistance		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993 3		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	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	2400	MPa	ISO 178
Flexural Stress	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	88	kJ/m²	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
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00 mm	HB		
0.750 mm	V-2		
1.50 mm	V-2		
Optical	Nominal Value	Unit	Test Method
Transmittance	87.0 to 91.0	%	ASTM D1003
Haze	0.70 to 1.5	%	ASTM D1003

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