CALIBRE™ 301-58 LT

Polycarbonate Resin

Trinseo

Message:

CALIBRE™ 301-58 LT is a high light transmission, high-flow polycarbonate resin for injection molding applications.
Main Characteristics:
High light transmission
High flow for injection molding
High purity
Applications:
LED optics
Light guides

General Information			
UL YellowCard	E54680-101844503		
Features	High Flow High Light Transmission High Purity		
Uses	LEDs Lighting Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	58	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
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	48.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	60	%	
Flexural Modulus [1]	2500	MPa	ISO 178
Flexural Stress [2]	100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (23°C)	58	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	137	°C	ISO 75-2/B
1.8 MPa, Unannealed	124	°C	ISO 75-2/A
1.8 MPa, Annealed	134	°C	ISO 75-2/A
Vicat Softening Temperature	147	°C	ISO 306/B50
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification (0.750 mm)	V-2		IEC 60695-11-10, -20
Glow Wire Flammability Index [3]			IEC 60695-2-12
1.00 mm	850	°C	
2.00 mm	900	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature [4]			IEC 60695-2-13
1.00 mm	875	°C	
2.00 mm	875	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index	1.583		ISO 489
Transmittance	> 90.0	%	ASTM D1003
Haze	< 1.0	%	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.		

Recommended distributors for this material

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