

Celanex® 1462Z

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex 1462Z is a general purpose, 30% glass reinforced polybutylene terephthalate with a good balance of mechanical properties and processability.

General Information			
UL YellowCard	E45575-239357		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Workability, good		
	General		
Uses	General		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)	14	g/10 min	ASTM D1238
Molding Shrinkage			
Flow	0.30 - 0.50	%	ASTM D955
Flow direction	0.30 - 0.50	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture, 23°C	124	MPa	ASTM D638
Fracture	135	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	4.0	%	ASTM D638
Fracture	2.6	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	9110	MPa	ISO 178
Flexural Stress (23°C)	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.2	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	9.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	225	°C	ISO 75-2/B
0.45 MPa, annealed	217	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, not annealed	207	°C	ISO 75-2/A

Glass Transition Temperature ¹	60.0	°C	ISO 11357-2
Melting Temperature ²	225	°C	ISO 11357-3, ASTM D3418
Linear thermal expansion coefficient			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ³	20	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 130	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	25	%	
Hopper Temperature	20.0 - 50.0	°C	
Rear Temperature	230 - 240	°C	
Middle Temperature	235 - 250	°C	
Front Temperature	235 - 250	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	235 - 260	°C	
Mold Temperature	65.0 - 93.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 - 0.345	MPa	
Injection instructions			
Manifold Temperature: 250 to 260°CZone 4 Temperature: 240 to 260°CFeed Temperature: 230 to 240°C			
NOTE			
1.	10°C/min		
2.	10°C/min		
3.	Method A (short time)		

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