

Celanex® 1642Z

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex 1642Z is a general purpose, 20% fiberglass reinforced PBT with a good balance of mechanical properties and processability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Workability, good		
	General		
Uses	General		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
shrinkage-Flow	0.40 - 0.80	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6250	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture, 23°C	96.5	MPa	ASTM D638
Fracture	105	MPa	ISO 527-2/1A/5
Tensile Elongation			
Fracture, 23°C	4.0	%	ASTM D638
Fracture	4.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	5500	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.3	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	7.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.1E-5	cm/cm/°C	ISO 11359-2
Lateral	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Arc Resistance	130	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Suggested Max Regrind	25	%
Hopper Temperature	20 - 50	°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 - 93	°C
Injection Rate	Fast	
Back Pressure	0.00 - 0.345	MPa

Injection instructions

Manifold Temperature: 250 to 260°C Zone 4 Temperature: 240 to 260°C Feed Temperature: 230 to 240°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

