

BESTDUR TXG4/01

Polybutylene Terephthalate

Triesa Plastics

Message:

PBT natural lubrified with 20% glass fibre reinforcement and V-0 quality, this material combines good mechanical properties and excellent flame resistance, generally employed in electrical industry or in final pieces that require V-0 quality.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Lubricant		
Features	Flame Retardant		
	Lubricated		
Uses	Electrical/Electronic Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.40	%	ISO 62
Ash Content	20	%	Internal Method
Humidity - Pellets	0.20	%	ISO 1110
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress	115	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	218	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Electric Strength	28	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method

Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	V-0		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	235 to 245	°C	
Mold Temperature	50.0 to 90.0	°C	

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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

