

BESTDUR THG6/01

Polybutylene Terephthalate

Triesa Plastics

Message:

PBT natural lubrified with 30% of glass fibre reinforcement generally used for final injected pieces which requires good mechanical properties and good injection behaviour.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Processability		
	Heat Stabilized		
	Lubricated		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage	0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Ash Content	30	%	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	9800	MPa	ISO 527-2
Tensile Stress	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Vicat Softening Temperature	215	°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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0 to 5.0	hr	
Processing (Melt) Temp	245 to 260	°C	
Mold Temperature	70.0 to 80.0	°C	

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