

BESTDUR TPHG6/01

Polybutylene Terephthalate + PET

Triesa Plastics

Message:

PBT+PET natural lubrified with 30% glass fibre reinforcement and heat stabilized

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Ash Content	30	%	Internal Method
Humidity - Pellets	0.10	%	ISO 1110
Track Resistance	250	kV/mm	IEC 60112
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Stress	130	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	242	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	°C	ISO 75-2/A
Vicat Softening Temperature	230	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Electric Strength	31	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	110	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	260 to 270	°C
Mold Temperature	95.0 to 110	°C

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