

BESTDUR THG4U/11

Polybutylene Terephthalate

Triesa Plastics

Message:

PBT special black with 20% glass fibre reinforcement and protected against ultra violet rays (UV). Is a PBT with good mechanical properties and good stiffness, that also includes a protection against UV, used in any piece that requires good mechanical properties and / or exposed to external atmospheric agents.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	UV Stabilizer		
Features	Good Stiffness		
	Good UV Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.10	%	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	122	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	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	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°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	30	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	100	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	245 to 260	°C
Mold Temperature	70.0 to 80.0	°C

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