

BESTDUR TH/01

Polybutylene Terephthalate

Triesa Plastics

Message:

PBT natural Standard, lubricied to achieve improvements in injection process and moulding. Is an appropriate PBT for any injection technique and general applications.

General Information			
Additive	Lubricant		
Features	General Purpose		
	Lubricated		
Uses	General Purpose		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage	1.5	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Humidity - Pellets	0.20	%	ISO 1110
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	180	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Electric Strength	27	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	230 to 245	°C
Mold Temperature	40.0 to 80.0	°C

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