

Kingfa PBT UTPBT-HB

Polybutylene Terephthalate

Kingfa

Message:

Kingfa PBT UTPBT-HB is a polybutene terephthalate (PBT) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PBT UTPBT-HB are:

flame retardant/rated flame

Good processability

Good toughness

Impact resistance

The typical application fields of Kingfa PBT UTPBT-HB are: electrical/electronic applications

General Information			
UL YellowCard	E171666-225739		
Features	Impact resistance, high		
	Workability, good		
	Good toughness		
Uses	Membrane key switch		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	1.3	%	ASTM D955
Transverse flow: 23°C	1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	40.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³	2000	MPa	ASTM D790
Flexural Strength ⁴	55.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	150	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	55.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	220 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	240 - 260	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 270°C			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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