

Kingfa PBT G15

Polybutylene Terephthalate

Kingfa

Message:

Kingfa PBT G15 is a polybutene terephthalate (PBT) material, which contains a 15% glass fiber reinforced material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PBT G15 are:

flame retardant/rated flame

Heat resistance

The typical application field of Kingfa PBT G15 is: automotive industry

General Information			
UL YellowCard	E171666-225730		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Heat resistance, high		
Uses	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.50	%	ASTM D955
Transverse flow: 23°C	1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	100	MPa	ASTM D638
Tensile Elongation ² (Break)	3.5	%	ASTM D638
Flexural Modulus ³	5000	MPa	ASTM D790
Flexural Strength ⁴	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	215	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	208	°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	4.0 - 6.0	hr
Rear Temperature	220 - 240	°C
Middle Temperature	235 - 255	°C
Front Temperature	245 - 265	°C
Processing (Melt) Temp	235 - 255	°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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