

Kingfa PBT RG151

Polybutylene Terephthalate

Kingfa

Message:

Kingfa PBT RG151 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 RG151 are:

- flame retardant/rated flame
- Flame Retardant
- high strength
- Heat resistance

The typical application areas of Kingfa PBT RG151 are: electrical/electronic applications

General Information			
UL YellowCard	E171666-100139763	E171666-256877	E171666-100139761
	E171666-100139762		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	No frost		
	High strength		
	Good electrical performance		
	Heat resistance, high		
	Flame retardancy		
Uses	Connector		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	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)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	95.0	MPa	ASTM D638
Tensile Elongation ² (Break)	3.4	%	ASTM D638
Flexural Modulus ³	5600	MPa	ASTM D790
Flexural Strength ⁴	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	70	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	205	°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			UL 94
0.300 mm	V-0		UL 94
0.750 mm	V-0		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	240 - 265	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 265°C			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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