

Kingfa PBT R0N

Polybutylene Terephthalate

Kingfa

Message:

Kingfa PBT R0N 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 R0N are:

- flame retardant/rated flame
- Flame Retardant
- Good processability
- beautiful
- Impact resistance

The typical application fields of Kingfa PBT R0N are: electrical/electronic applications

General Information			
UL YellowCard	E171666-225731		
Features	Impact resistance, high		
	Workability, good		
	Good chemical resistance		
	Excellent appearance		
	Flame retardancy		
Uses	Membrane key switch		
	Connector		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	1.2	%	ASTM D955
Transverse flow: 23°C	1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	50.0	MPa	ASTM D638
Tensile Elongation ² (Break)	25	%	ASTM D638
Flexural Modulus ³	2500	MPa	ASTM D790
Flexural Strength ⁴	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	162	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	63.0	°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			UL 94
0.750 mm	V-0		UL 94
3.00 mm	V-0		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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