

Kingfa PBT JE2-R2G20

Acrylonitrile Butadiene Styrene + PBT

Kingfa

Message:

Kingfa PBT JE2-R2G20 is an acrylonitrile butadiene styrene PBT (ABS 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 JE2-R2G20 are:

- flame retardant/rated flame
- High stiffness
- anti-warping
- chemical resistance
- heat stabilizer

Typical application areas include:

- Electrical/electronic applications
- electrical appliances
- optics/lens
- Automotive Industry
- Sporting goods

General Information			
UL YellowCard	E171666-225721		
Additive	heat stabilizer		
Features	Rigidity, high		
	Bending resistance		
	Good strength		
	Good chemical resistance		
	Thermal Stability		
Uses	Electrical appliances		
	Optical applications		
	Car dashboard		
	Sporting goods		
	Camera application		
	Printing press		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.30 - 0.40	%	ASTM D955
Transverse flow: 23°C	0.60 - 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	82		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	90.0	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³	7800	MPa	ASTM D790
Flexural Strength ⁴	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	122	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	110	°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
1.60 mm	V-2		UL 94
3.30 mm	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	245 - 265	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	235 - 260	°C	
Processing (Melt) Temp	235 - 260	°C	
Mold Temperature	60.0 - 110	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 265°C Injection Speed: 60 to 80%			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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