

Kingfa PET-G15

Polyethylene Terephthalate

Kingfa

Message:

Kingfa PET-G15 is a polyethylene terephthalate (PET) 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 PET-G15 are:

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

The typical application field of Kingfa PET-G15 is: automotive industry

General Information			
UL YellowCard	E171666-101202003		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	High strength		
	Heat resistance, medium		
Uses	Application in Automobile Field		
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	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)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	110	MPa	ASTM D638
Tensile Elongation ² (Break)	3.2	%	ASTM D638
Flexural Modulus ³	5500	MPa	ASTM D790
Flexural Strength ⁴	160	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	230	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	220	°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
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	235 - 255	°C	
Middle Temperature	245 - 265	°C	
Front Temperature	255 - 275	°C	
Processing (Melt) Temp	255 - 275	°C	
Mold Temperature	80.0 - 120	°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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