

Keplex® 4345GF

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 4345GF is a glass fiber 45%-reinforced PET grade.

It has superior injection molding, mechanical, and thermal characteristics.

It is suitable for automotive and electrical & electronics parts requiring high stiffness and heat resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Features	Rigidity, high		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm ³	ISO 1183
shrinkage-Flow (3.00 mm)	0.40 - 0.80	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	172	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus	14300	MPa	ISO 178
Flexural Stress	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.8	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	250	°C	ISO 75-2/B
1.8 MPa, not annealed	225	°C	ISO 75-2/A
Melting Temperature ¹	250	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Dielectric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant (60 Hz)	3.40		ASTM D150
Dissipation Factor (60 Hz)	2.0E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 130	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.050	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	260	°C	
Middle Temperature	270	°C	
Front Temperature	280	°C	
Nozzle Temperature	290	°C	
Mold Temperature	70 - 90	°C	
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	80 - 120	rpm	
NOTE			
1.	10°C/min		

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