

Keplex® 3930GFU

Polybutylene Terephthalate + ASA

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3930GFU is a glass fiber 30%-reinforced PBT/ASA low-warpage grade.

It has superior mechanical, thermal, and electrical properties. It also has strong weather resistance.

It is suitable for automotive, electrical & electronics, and industrial parts requiring high stiffness, low warpage, and weather resistance.

General Information			
UL YellowCard	E120354-220473		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low warpage		
	Rigidity, high		
	Good electrical performance		
	Good weather resistance		
Uses	Electrical/Electronic Applications		
	Industrial components		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
shrinkage-Flow (3.00 mm)	0.30 - 0.50	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	130	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	8600	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	200	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Flammability	Nominal Value		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	230	°C
Middle Temperature	240	°C
Front Temperature	250	°C
Nozzle Temperature	250	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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