

Keplex® 3830GF

Polyester Alloy

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3830GF is a 30% glass fiber reinforced polyester alloy.

Excellent low warpage and good impact strength.

It is applicable to automotive, electrical, electronic, and industrial parts.

General Information			
UL YellowCard	E120354-220473		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Impact Resistance		
	Low Warpage		
Uses	Automotive Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	60	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	118	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638
Flexural Modulus (23°C)	6860	MPa	ASTM D790
Flexural Strength (23°C)	167	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	222	°C	DSC
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Hopper Temperature	240 to 270	°C	
Rear Temperature	240 to 270	°C	

Middle Temperature	240 to 270	°C
Front Temperature	240 to 270	°C
Nozzle Temperature	240 to 270	°C
Mold Temperature	40.0 to 100	°C

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