

Keplex® 3500SF

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3500SF is an unfilled, impact modified, and medium melt flow PBT.

It exhibits good toughness and high impact strength.

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

General Information			
Additive	Impact Modifier		
Features	Good Toughness		
	High Impact Resistance		
	Impact Modified		
	Medium Flow		
Uses	Automotive Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.8 to 2.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	48.1	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	50	%	ASTM D638
Flexural Modulus (23°C)	2160	MPa	ASTM D790
Flexural Strength (23°C)	73.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	83	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	140	°C	
1.8 MPa, Unannealed	45.0	°C	
Melting Temperature	220	°C	DSC

Flammability	Nominal Value	Test Method
Flame Rating (0.800 mm)	HB	UL 94

Injection	Nominal Value	Unit
Hopper Temperature	230 to 250	°C
Rear Temperature	230 to 250	°C
Middle Temperature	230 to 250	°C
Front Temperature	230 to 250	°C
Nozzle Temperature	230 to 250	°C
Mold Temperature	40.0 to 100	°C

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