

Keplex® 3500SA

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3500SA is an unfilled, lubricated, and medium melt flow PBT.

It exhibits good toughness and impact strength.

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

General Information			
Additive	Lubricant		
Features	Good Impact Resistance		
	Good Toughness		
	Lubricated		
	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	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	25	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)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	55.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	50	%	ASTM D638
Flexural Modulus (23°C)	2450	MPa	ASTM D790
Flexural Strength (23°C)	82.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	155	°C	
1.8 MPa, Unannealed	55.0	°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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