

Keplex® 3500

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3500 is an unfilled, medium viscosity PBT.

It exhibits good mechanical, thermal, and electrical properties.

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

General Information			
Features	Medium viscosity		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Industrial application		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	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 - 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)	53.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	200	%	ASTM D638
Flexural Modulus (23°C)	2450	MPa	ASTM D790
Flexural Strength (23°C)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	155	°C	ASTM D648
1.8 MPa, not annealed	55.0	°C	ASTM D648
Melting Temperature	220	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	HB		UL 94
Additional Information			
Tensile Elongation @ Brk, ASTM D638, 23°C: > 200%			
Injection	Nominal Value	Unit	

Hopper Temperature	230 - 250	°C
Rear Temperature	230 - 250	°C
Middle Temperature	230 - 250	°C
Front Temperature	230 - 250	°C
Nozzle Temperature	230 - 250	°C
Mold Temperature	40.0 - 100	°C

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