

Keplex® 3700V

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

Message:

KEPEX 3700V is an extrusion and flame-retardant polyester grade.
It has good extrusion and melt spinning characteristics.(UL94 V-2 type)
It is suitable for flame fabric and flame textiles.

General Information			
Features	Flame retardancy		
Uses	Textile applications		
	Fabric		
RoHS Compliance	RoHS compliance		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
shrinkage-Flow (3.00 mm)	2.5	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	74.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	150	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (60 Hz)	3.30		ASTM D150
Dissipation Factor (60 Hz)	7.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.8 mm)	V-2	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	245	°C
Front Temperature	235	°C
Nozzle Temperature	245	°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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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

