

SPESIN® KP270

Polybutylene Terephthalate

Kolon Plastics, Inc.

Message:

SPESIN® KP270 is a Polybutylene Terephthalate (PBT) product. It can be processed by extrusion and is available in North America. Primary characteristic: flame rated.

General Information			
Forms	Pellets		
Processing Method	Extrusion		
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)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.070	%	ASTM D570
Intrinsic Viscosity	2.0	dl/g	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	54.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 100	%	ASTM D638
Flexural Modulus (23°C)	2500	MPa	ASTM D790
Flexural Strength (23°C)	94.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	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	70.0	°C	
Melting Temperature	224	°C	ASTM D1525
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	28	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

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

