

## Kolon SPESINÂ® KP213G30 Flame Retardant PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

### Material Notes:

SPESINÂ® is a thermoplastic PBT resin with excellent thermal, mechanical and electrical properties. SPESINÂ® is widely used in industrial parts and especially in electrical-electronic parts. High heat stability, outstanding abrasion resistance, excellent electrical properties, good surface gloss, low water absorption, excellent chemical resistance, good processability. Information provided by US distributor, API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-SPESIN-KP213G30-Flame-Retardant-PBT-Resin.php](http://www.lookpolymers.com/polymer_Kolon-SPESIN-KP213G30-Flame-Retardant-PBT-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.050 %	0.050 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	DIN 53505; ASTM D785
Tensile Strength, Ultimate	137 MPa	19900 psi	DIN 53455; ASTM D638
Elongation at Break	5.0 %	5.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	211 MPa	30600 psi	DIN 53455; ASTM D790
Flexural Modulus	8.34 GPa	1210 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.883 J/cm	1.65 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	DIN 53752; ASTM D696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Melting Point	224 Â°C	435 Â°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	<sup>3.2</sup> Metric	<sup>3.2</sup> English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China