

## Kolon SPESIN® KP513FLBL Multi Reinforced PBT Resin (discontinued \*\*)

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

### Material Notes:

SPESIN® is a thermoplastic PBT resin with excellent thermal, mechanical and electrical properties. SPESIN® 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-KP513FLBL-Multi-Reinforced-PBT-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Kolon-SPESIN-KP513FLBL-Multi-Reinforced-PBT-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.080 %	0.080 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.015 - 0.019 cm/cm	0.015 - 0.019 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	DIN 53505; ASTM D785
Tensile Strength, Ultimate	68.6 MPa	9960 psi	DIN 53455; ASTM D638
Elongation at Break	40 %	40 %	DIN 53455; ASTM D638
Flexural Yield Strength	79.4 MPa	11500 psi	DIN 53455; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	DIN 53752; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	224 °C	435 °F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
	3.7	3.7	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150/DIN 53483 Comments
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149/DIN 53481
Arc Resistance	110 sec	110 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