

Kolon SPESIN® KP213G45 Flame Retardant PBT Resin (discontinued **)

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

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-KP213G45-Flame-Retardant-PBT-Resin-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|----------------------|
| Density | 1.65 g/cc | 0.0596 lb/in ³ | DIN 53479; ASTM D792 |
| Water Absorption | 0.050 % | 0.050 % | DIN 53475; ASTM D570 |
| Linear Mold Shrinkage | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|----------------------|
| Hardness, Rockwell R | 119 | 119 | DIN 53505; ASTM D785 |
| Tensile Strength, Ultimate | 147 MPa | 21300 psi | DIN 53455; ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | DIN 53455; ASTM D638 |
| Flexural Yield Strength | 216 MPa | 31300 psi | DIN 53455; ASTM D790 |
| Flexural Modulus | 9.81 GPa | 1420 ksi | DIN 53452; ASTM D790 |
| Izod Impact, Notched | 0.686 J/cm | 1.29 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) | 220 °C | 428 °F | DIN 53461; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F | DIN 53461; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| | 3.2 | 3.2 | |

| Dielectric Constant Electrical Properties | Metric @ Frequency 1e+6 Hz | English @ Frequency 1e+6 Hz | ASTM D150/DIN 53483 Comments |
|--|-------------------------------|--------------------------------|---------------------------------|
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | ASTM D149/DIN 53481 |
| Arc Resistance | 120 sec | 120 sec | ASTM D495 |

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