

Kolon KOLEFINÂ® KO133GM40 M/F Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass/Mineral Reinforced

Material Notes:

KOLEFINÂ® has excellent mechanical properties and its cost is lower than other engineering plastics. KOLEFINÂ® is widely used in the automotive industry and business applications. Good mechanical properties and for high heat resistance, low mold shrinkage, good processability. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOLEFIN-KO133GM40-MF-Reinforced-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|----------------------|
| Density | 1.12 g/cc | 0.0405 lb/in ³ | DIN 53479; ASTM D792 |
| Water Absorption | 0.30 % | 0.30 % | DIN 53475; ASTM D570 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|----------------------|
| Hardness, Rockwell R | 100 | 100 | DIN 53505; ASTM D785 |
| Tensile Strength, Ultimate | 93.2 MPa | 13500 psi | DIN 53455; ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | DIN 53455; ASTM D638 |
| Flexural Yield Strength | 123 MPa | 17800 psi | DIN 53455; ASTM D790 |
| Flexural Modulus | 5.39 GPa | 782 ksi | DIN 53452; ASTM D790 |
| Izod Impact, Notched | 0.981 J/cm | 1.84 ft-lb/in | DIN 53453; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------------------|
| Melting Point | 170 Â°C | 338 Â°F | DIN 53736; ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 163 Â°C | 325 Â°F | DIN 53461; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|---------------------|
| Dielectric Constant | 2.5 | 2.5 | ASTM D150/DIN 53483 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | ASTM D149/DIN 53481 |
| Arc Resistance | 130 sec | 130 sec | ASTM D495 |

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