

Plastics Group Polifil® RMT-20V 20% Talc-Reinforced Polypropylene, High Impact, UV Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Talc Filler

Material Notes:

Polifil® RMT-V series compounds are high impact, UV stabilized polypropylenes reinforced with asbestos-free talc. In addition to high impact strength, they possess a high flex modulus and the ability to retain their original color and state. Applications: Outdoor furnitureAutomotiveAppliancesStandard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-RMT-20V-20-Talc-Reinforced-Polypropylene-High-Impact-UV-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-------------------------------------|--|
| Density | 1.05 g/cc | 0.0379 lb/in ³ | ASTM D792 |
| Filler Content | 20 % | 20 % | ASTM D2584 |
| Linear Mold Shrinkage | 0.012 cm/cm @Thickness 1.59 mm | 0.012 in/in @Thickness 0.0625 in | ASTM D955 |
| Melt Flow | 16 - 20 g/10 min | 16 - 20 g/10 min | 230/2.16; May be specified; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|---------------|--------------------|
| Hardness, Rockwell R | 87 | 87 | ASTM D785 |
| Tensile Strength at Break | 27.6 MPa | 4000 psi | ASTM D638 |
| Flexural Modulus | 2.00 GPa | 290 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.721 J/cm | 1.35 ft-lb/in | At 73°F; ASTM D256 |
| Izod Impact, Unnotched | 6.67 J/cm | 12.5 ft-lb/in | At 73°F; ASTM D256 |
| Gardner Impact | 5.197 J | 3.833 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 118 °C | 244 °F | ASTM D648 |

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