

Adell RR-18 Copolymer Polypropylene, 40% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-RR-18-Copolymer-Polypropylene-40-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------------------------|
| Density | 1.22 g/cc | 0.0441 lb/in ³ | ASTM D792 |
| Water Absorption | 0.030 % | 0.030 % | 24 hour immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0035 cm/cm | 0.0035 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|------------|
| Hardness, Rockwell M | 58 | 58 | ASTM D785 |
| Hardness, Rockwell R | 110 | 110 | ASTM D785 |
| Tensile Strength, Ultimate | 82.1 MPa | 11900 psi | ASTM D638 |
| Elongation at Break | 4.5 % | 4.5 % | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | ASTM D790 |
| Flexural Modulus | 5.10 GPa | 740 ksi | ASTM D790 |
| Izod Impact, Notched | 1.30 J/cm | 2.44 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 5.90 J/cm | 11.1 ft-lb/in | ASTM D256 |
| Gardner Impact | 0.700 J | 0.516 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Melting Point | 160 °C | 320 °F | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 157 °C | 315 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 149 °C | 300 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | |

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