

Adell ZR-37 33% Glass Reinforced Nylon/Olefin Alloy

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Data provided by Adell Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-ZR-37-33-Glass-Reinforced-NylonOlefin-Alloy.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-----------|
| Density | 1.32 g/cc | 0.0477 lb/in ³ | ASTM D792 |
| Linear Mold Shrinkage | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|------------|
| Tensile Strength, Ultimate | 138 MPa | 20000 psi | ASTM D638 |
| Elongation at Break | 6.0 % | 6.0 % | ASTM D638 |
| Flexural Strength | 193 MPa | 28000 psi | ASTM D790 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |
| Izod Impact, Notched | 1.23 J/cm | 2.30 ft-lb/in | ASTM D256 |
| | 1.12 J/cm | 2.10 ft-lb/in | ASTM D256 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Izod Impact, Unnotched | 6.94 J/cm | 13.0 ft-lb/in | ASTM D256 |
| | 5.13 J/cm | 9.60 ft-lb/in | ASTM D256 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Gardner Impact | 1.20 J | 0.885 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 158 °C | 316 °F | |

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