

E-Polymers TEKAMID® TB120CR Fast Crystallinity PA6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Polyamide (Nylon) Resin. TEKAMID is widely being used in manufacturing of automotive and industrial parts with its outstanding mechanical, thermal and chemical properties. T-series: Impact modified, Super tough products Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TB120CR-Fast-Crystallinity-PA6-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------------------|--------------------------|-----------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | ASTM D792 |
| Water Absorption | 1.7 % @Time 86400 sec | 1.7 % @Time 24.0 hour | |
| Linear Mold Shrinkage | 0.014 cm/cm | 0.014 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|------------|----------------|-----------|
| Tensile Strength | 75.5 MPa | 11000 psi | ASTM D638 |
| Elongation at Break | 60 % | 60 % | ASTM D638 |
| Flexural Strength | 108 MPa | 15700 psi | ASTM D790 |
| Flexural Modulus | 2.65 GPa | 384 ksi | ASTM D790 |
| Izod Impact, Notched | 0.441 J/cm | 0.827 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|------------|
| Melting Point | 220 °C | 428 °F | ASTM D2133 |
| Deflection Temperature at 0.46 MPa (66 psi) | 175 °C | 347 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 °C | 185 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature | 230 - 250 °C | 446 - 482 °F | |
| Mold Temperature | 40.0 - 60.0 °C | 104 - 140 °F | |

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