

Quantum Nylon 6/6 30% Glass Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Information provided by Quantum Advanced Engineering Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Nylon-66-30-Glass-Fiber-Filled.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|-----------|-----------|-----------|
| Specific Gravity | 1.34 g/cc | 1.34 g/cc | ASTM D792 |
| Water Absorption | 0.70 % | 0.70 % | ASTM D570 |
| Water Absorption at Saturation | 5.5 % | 5.5 % | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|-----------|
| Hardness, Rockwell M | 100 | 100 | ASTM D785 |
| Hardness, Rockwell R | 122 | 122 | ASTM D785 |
| Hardness, Shore D | 80 | 80 | ASTM 2240 |
| Tensile Strength | 159 MPa | 23000 psi | ASTM D638 |
| Elongation at Break | 6.0 % | 6.0 % | ASTM D638 |
| Tensile Modulus | 8.27 GPa | 1200 ksi | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | ASTM D790 |
| Flexural Modulus | 0.758 GPa | 110 ksi | ASTM D790 |
| Compressive Strength | 138 MPa | 20000 psi | ASTM D695 |
| Izod Impact, Notched | 1.07 J/cm | 2.00 ft-lb/in | ASTM D256 |
| Coefficient of Friction | 0.31 | 0.31 | |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|--|--|------------|
| CTE, linear | 27.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 15.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | ASTM D696 |
| Thermal Conductivity | 0.288 W/m-K | 2.00 BTU-in/hr-ft ² -°F | ASTM C177 |
| Melting Point | 260 °C | 500 °F | ASTM D3417 |
| Maximum Service Temperature, Air | 104 °C | 220 °F | |
| Deflection Temperature at 0.46 MPa | 260 °C | 500 °F | |

| Thermal Properties | Metric | English | ASTM D648 Comments |
|--|--------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 252 °C | 485 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------|--------------------------|-----------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.6 | 3.6 | ASTM D150 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 13.8 kV/mm | 350 kV/in | ASTM D149 |
| Dissipation Factor | 0.0016 | 0.0016 | ASTM D150 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| FDA Compliance | no | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China