

Asia International Enterprise (Hong Kong) 60G5F Nylon 66, 25% Filled

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

Material Notes:

Information provided by Asia International Enterprise (Hong Kong) Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asia-International-Enterprise-Hong-Kong-60G5F-Nylon-66-25-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.39 g/cc | 1.39 g/cc | ASTM D792 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Filler Content | 25 % | 25 % | |
| Linear Mold Shrinkage | 0.0040 - 0.0090 cm/cm | 0.0040 - 0.0090 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|---|----------------------|
| Hardness, Rockwell R | 122 | 122 | ASTM D785 |
| Tensile Strength, Ultimate | 142 MPa | 20600 psi | 5mm/min; ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | 5mm/min; ASTM D638 |
| Flexural Strength | 211 MPa | 30600 psi | 2.8mm/min; ASTM D790 |
| Flexural Modulus | 7.85 GPa | 1140 ksi | 2.8mm/min; ASTM D790 |
| Izod Impact, Notched | 0.981 J/cm | 1.84 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Melting Point | 261 °C | 502 °F | ASTM D789 |
| Deflection Temperature at 0.46 MPa (66 psi) | 245 °C | 473 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 240 °C | 464 °F | ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------|--------------|----------------------|
| Middle Barrel Temperature | 250 - 300 °C | 482 - 572 °F | Cylinder Temperature |
| Mold Temperature | 50.0 - 90.0 °C | 122 - 194 °F | |

| Processing Properties | Metric ^{90.0 °C} | English ^{176.0 °F} | Comments |
|-----------------------|---------------------------|-----------------------------|----------|
| Dry Time | 4 - 6 hour | 4 - 6 hour | |

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