

Kuraray Genestar[®],ç GP2450NH-2 Nylon, 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Standard V-0 Grade. Halogen free, following the standards that Br is less than 900ppm, Cl is less than 900ppm, and total of halogen amount (Br and Cl) is less than 1500ppm. This grade meets UL94, V-0 Flammability rating without Chlorine and Bromine. It has good balance of mechanical properties and flow-ability as well as other V-0 grades containing Bromine Flame Retardant (BFR).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-GP2450NH-2-Nylon-45-Glass-Filled.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|--|----------------|
| Specific Gravity | 1.53 g/cc | 1.53 g/cc | |
| Water Absorption | 0.80 % | 0.80 % | |
| Linear Mold Shrinkage, Flow | 0.00040 cm/cm | 0.00040 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0050 cm/cm | 0.0050 in/in | |
| Spiral Flow | 5.50 cm @Load 750 kg, Temperature 320 Â°C | 2.17 in @Load 1650 lb, Temperature 608 Â°F | 0.5mm diameter |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|---------------|-----------------|
| Tensile Strength | 38.0 MPa | 5510 psi | Weld; ASTM D638 |
| | 165 MPa | 23900 psi | ASTM D638 |
| Elongation at Yield | 0.40 % | 0.40 % | Weld; ASTM D638 |
| | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Strength | 224 MPa | 32500 psi | ASTM D790 |
| Flexural Modulus | 13.0 GPa | 1890 ksi | ASTM D790 |
| Izod Impact, Notched | 1.00 J/cm | 1.87 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Melting Point | 306 Â°C | 583 Â°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 285 Â°C | 545 Â°F | ASTM D648 |
| Glass Transition Temp, Tg | 125 Â°C | 257 Â°F | |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-------------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | ASTM D149 |
| Comparative Tracking Index | >= 600 V | >= 600 V | ASTM UL746A |

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