

EPICHEM Epinyl PA 66 GF 30 H Polyamide 66, 30% Glass, Heat Stabilized

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

Material Notes:

Characteristics: 30% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epinyl-PA-66-GF-30-H-Polyamide-66-30-Glass-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|----------------------|---------------------------|------------------------|
| Density | 1.36 g/cc | 0.0491 lb/in ³ | ASTM D792, ISO 1183 |
| Water Absorption | 6.0 % | 6.0 % | 24h; ASTM D570, ISO 62 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Linear Mold Shrinkage | 0.0020 - 0.011 cm/cm | 0.0020 - 0.011 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-----------------------|
| Hardness, Rockwell L | 110 | 110 | ASTM D785, ISO 2039/2 |
| Tensile Strength, Yield | 170 MPa | 24700 psi | ASTM D638, ISO R527 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D638, ISO R527 |
| Flexural Strength | 235 MPa | 34100 psi | ASTM D790, ISO 178 |
| Flexural Modulus | 8.90 GPa | 1290 ksi | ASTM D790, ISO 178 |
| Izod Impact, Notched | 0.700 J/cm | 1.31 ft-lb/in | ASTM D256, ISO 180/4a |
| | @Thickness 3.20 mm, Temperature 23.0 °C | @Thickness 0.126 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|----------------|---------------|------------------------------------|
| Maximum Service Temperature, Air | 110 °C | 230 °F | 20000 h; VDE 0304/P2-1, IEC 216 |
| | 120 °C | 248 °F | 5000 h; VDE 0304/P2-1, IEC 216 |
| | 210 °C | 410 °F | few hours; VDE 0304/P2-1, IEC 216 |
| Deflection Temperature at 1.8 MPa (264 psi) | 248 °C | 478 °F | ASTM D648, ISO 75 |
| Vicat Softening Point | 250 °C | 482 °F | 120°C/min; ASTM D1525/B, ISO 306/B |
| | @Load 5.00 kg | @Load 11.0 lb | |
| Vicat Softening Point | 254 °C | 489 °F | 120°C/min; ASTM D1525/A, ISO 306/A |
| | @Load 0.999 kg | @Load 2.20 lb | |

| Thermal Properties Flammability, UL 94 | Metric | English | Comments |
|---|--------------------|----------------------|----------|
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|----------------------|
| Surface Resistance | 1.00e+13 ohm | 1.00e+13 ohm | ASTM D257, IEC 93 |
| Dielectric Constant | 3.5 | 3.5 | ASTM D150, IEC 250 |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 90.0 kV/mm | 2290 kV/in | ASTM D149, IEC 243 |
| Dissipation Factor | 0.020 | 0.020 | ASTM D150, IEC 250 |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Comparative Tracking Index | 425 V | 425 V | VDE 0303-P1, IEC 112 |

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