

Gromax BTG30-DN03N1 Nylon 6 30% Glass Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-BTG30-DN03N1-Nylon-6-30-Glass-Filled-Dry.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--------------------------------------|-----------------------|
| Specific Gravity | 1.31 g/cc | 1.31 g/cc | ISO 1183 |
| Moisture Absorption | 0.900 % | 0.900 % | ISO 62 |
| Maximum Moisture Content | 0.10 | 0.10 | Karl Fischer |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm @Temperature 80.0 Â°C | 0.0030 in/in @Temperature 176 Â°F | 60x60x2 mm; ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.0070 cm/cm @Temperature 80.0 Â°C | 0.0070 in/in @Temperature 176 Â°F | 60x60x2 mm; ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|--|------------------------------|
| Hardness, Shore D | 67 | 67 | [N/mm²]; ISO 7619 |
| Tensile Strength | 113 MPa | 16400 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 3.4 % | 3.4 % | 50 mm/min; ISO 527 |
| Flexural Strength | 140 MPa | 20300 psi | 5 mm/min; ISO 178 |
| Flexural Modulus | 5.59 GPa | 811 ksi | 5 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 9.60 kJ/mÂ² | 4.57 ft-lb/inÂ² | ISO 180-1A |
| Charpy Impact Unnotched | 4.00 J/cmÂ² @Temperature 23.0 Â°C | 19.0 ft-lb/inÂ² @Temperature 73.4 Â°F | ISO 179-1eU |
| Charpy Impact, Notched | 0.630 J/cmÂ² @Temperature -30.0 Â°C | 3.00 ft-lb/inÂ² @Temperature -22.0 Â°F | ISO 179-1A |
| | 1.02 J/cmÂ² @Temperature 23.0 Â°C | 4.85 ft-lb/inÂ² @Temperature 73.4 Â°F | ISO 179-1A |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|---------------------------|
| Melting Point | 220 Â°C | 428 Â°F | 10Â°C/min; ISO 11357-1,-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 203 Â°C | 397 Â°F | ISO 75-1,-2 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|----------|
| Melt Temperature | 270 - 287 Â°C | 518 - 549 Â°F | ISO 294 |
| Mold Temperature | 80.0 - 120 Â°C | 176 - 248 Â°F | ISO 294 |
| Drying Temperature | 80.0 Â°C | 176 Â°F | |
| Dry Time | 2.00 - 6.00 hour | 2.00 - 6.00 hour | |

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