

Wellman Wellamid® GF25-60 XE-NBK1 25% Glass Fiber Reinforced Nylon 6

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

Material Notes:

Description: Glass Fiber Reinforced Nylon 6 Information provided by Wellman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-GF25-60-XE-NBK1-25-Glass-Fiber-Reinforced-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|---------------|
| Density | 1.32 g/cc | 0.0477 lb/in ³ | ISO 1183-87 |
| Filler Content | 25 % | 25 % | |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0060 cm/cm | 0.0020 - 0.0060 in/in | ISO DIS 294-4 |
| Linear Mold Shrinkage, Transverse | 0.0070 - 0.011 cm/cm | 0.0070 - 0.011 in/in | ISO DIS 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|------------|
| Tensile Strength at Break | 135 MPa | 19600 psi | ISO 527-93 |
| Elongation at Break | 3.5 % | 3.5 % | ISO 527-93 |
| Flexural Strength | 215 MPa | 31200 psi | ISO 178-93 |
| Flexural Modulus | 7.30 GPa | 1060 ksi | ISO 178-93 |
| Izod Impact, Notched (ISO) | 6.50 kJ/m ² | 3.09 ft-lb/in ² | ISO 180-93 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Melting Point | 220 °C | 428 °F | ISO 3146 |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F | ISO 75-93 |

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