

BASF Ultramid® FFree A3U40G5 25% Glass Filled PA66 FR (Conditioned)

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

Material Notes:

Description: Flame retardant without halogens and red phosphorus, 25% glass fiber reinforced injection-molding grade; light colorable; outstanding mechanical and electrical properties. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-FFree-A3U40G5-25-Glass-Filled-PA66-FR-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|----------------------|
| Density | 1.42 g/cc | 0.0513 lb/in ³ | ISO 1183 |
| Water Absorption | 4.0 - 4.6 % | 4.0 - 4.6 % | Saturation; ISO 62 |
| Moisture Absorption at Equilibrium | 1.1 - 1.5 % | 1.1 - 1.5 % | 23°C; 50% RH; ISO 62 |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | restricted |
| Melt Flow | 42.6 g/10 min @Load 5.00 kg, Temperature 275 °C | 42.6 g/10 min @Load 11.0 lb, Temperature 527 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|--|-------------------------|
| Tensile Strength, Yield | 140 MPa | 20300 psi | 50 mm/min; ISO 527-1/-2 |
| Elongation at Yield | 3.8 % | 3.8 % | 50 mm/min; ISO 527-1/-2 |
| Modulus of Elasticity | 7.40 GPa | 1070 ksi | ISO 527-1/-2 |
| Flexural Strength | 160 MPa | 23200 psi | at max force; ISO 178 |
| Flexural Modulus | 7.40 GPa | 1070 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² @Temperature 23.0 °C | 4.28 ft-lb/in ² @Temperature 73.4 °F | ISO 180/A |
| Charpy Impact Unnotched | 6.00 J/cm ² @Temperature 23.0 °C | 28.6 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 0.700 J/cm ² @Temperature 23.0 °C | 3.33 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------|
| Melting Point | 260 °C | 500 °F | DIN 53765 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|----------------------------|
| Volume Resistivity | 1.00e+11 ohm-cm | 1.00e+11 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+15 ohm | 1.00e+15 ohm | IEC 60093 |
| Dielectric Constant | 4.6 | 4.6 | IEC 60250 |
| | @Frequency 1.00 Hz | @Frequency 1.00 Hz | |
| Dissipation Factor | 0.10 | 0.10 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 600 V | 600 V | Test solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|-----------------------------|
| Melt Temperature | 280 - 300 °C | 536 - 572 °F | Injection-molding/Extrusion |
| Mold Temperature | 80.0 - 90.0 °C | 176 - 194 °F | Injection-molding |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Commercial Status | Europe | |

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