

BASF Ultramid® SEG8 BK-126 40% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Ultramid SEG8 BK-126 is a 40% glass reinforced, pigmented black, injection molding type 6 nylon requiring high strength, surface aesthetics, and good processability. This product has excellent surface appearance while maintaining a good balance of physical properties, such as high strength, improved toughness, and chemical resistance. It features superior flow properties, and is suited for parts having thinner walls and those requiring long lengths. It shows lower pressure, temperature, and cycle time requirements than conventional grades.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-SEG8-BK-126-40-Glass-Filled-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|---------------|
| Density | 1.45 g/cc | 0.0524 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|------------------|
| Tensile Strength, Ultimate | 190 MPa | 27600 psi | 5mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | 5mm/min; ISO 527 |
| Tensile Modulus | 11.0 GPa | 1600 ksi | 1mm/min; ISO 527 |
| Flexural Modulus | 10.74 GPa | 1558 ksi | ISO Data |
| Izod Impact, Notched (ISO) | 11.6 kJ/m ² | 5.52 ft-lb/in ² | ISO Test |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Melting Point | 220 °C | 428 °F | 10 K/min |
| | 220 °C | 428 °F | ASTM Test |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F | ISO 75 |

| Descriptive Properties | Value | Comments |
|------------------------|----------------|----------|
| Color | BK-126 | |
| Commercial Status | Active America | |
| Impact Modified | No | |

| Primary Processing Technique Descriptive Properties | Injection Molding Value | Comments |
|--|----------------------------|----------|
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