

BASF Ultramid® 1003-2 NF2002 PA66 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Ultramid 1003-2 NF2002 is a general purpose, heat stabilized nylon 6/6.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-1003-2-NF2002-PA66-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-------------|---------------------------|-----------------------|
| Density | 1.14 g/cc | 0.0412 lb/in ³ | ISO 1183 |
| Water Absorption | 8.5 % | 8.5 % | ISO 62 |
| Moisture Absorption at Equilibrium | 2.5 % | 2.5 % | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage | 0.016 cm/cm | 0.016 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|-----------------------------------|
| Tensile Strength, Yield | 83.0 MPa | 12000 psi | 2 in/min; ASTM Test |
| | 85.0 MPa | 12300 psi | 50mm/min; ISO 527 |
| Elongation at Break | 25 % | 25 % | 50mm/min, Nominal strain; ISO 527 |
| | 60 % | 60 % | 2 in/min; ASTM Test |
| Elongation at Yield | 5.0 % | 5.0 % | 50mm/min; ISO 527 |
| Tensile Modulus | 3.00 GPa | 435 ksi | 1mm/min; ISO 527 |
| Flexural Strength | 117 MPa | 17000 psi | ASTM Test |
| Flexural Modulus | 2.80 GPa | 406 ksi | ISO Data |
| | 2.90 GPa | 421 ksi | ASTM Test |
| Izod Impact, Notched | 0.530 J/cm | 0.993 ft-lb/in | ASTM Test |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| Izod Impact, Notched (ISO) | 5.20 kJ/m ² | 2.47 ft-lb/in ² | ISO Test |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| | NB | NB | ISO 179 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 0.570 J/cm ² | 2.71 ft-lb/in ² | ISO 179 |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | |

| Mechanical Properties | Metric | English | ISO 179 Comments |
|-----------------------|------------------------|------------------------|---------------------|
| | @ Temperature -30.0 °C | @ Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|-----------|
| Melting Point | 257 °C | 495 °F | 10 K/min |
| | 257 °C | 495 °F | ASTM Test |
| Deflection Temperature at 0.46 MPa (66 psi) | 205 °C | 401 °F | ISO 75 |
| | 243 °C | 469 °F | ASTM Test |
| Deflection Temperature at 1.8 MPa (264 psi) | 72.0 °C | 162 °F | ISO 75 |
| | 88.0 °C | 190 °F | ASTM Test |

| Descriptive Properties | Value | Comments |
|------------------------------|-------------------|----------|
| Color | Natural | |
| Commercial Status | Active America | |
| Impact Modified | No | |
| Primary Processing Technique | Injection Molding | |

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