

BASF Ultramid® HPN 9350 HS PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Ultramid HPN 9350 HS is a flexible, heat stabilized, impact modified PA6 extrusion grade resin. It possesses a balance of performance properties such as good flexibility, toughness and abrasion resistance. The addition of heat stabilizer system extends its retention of properties at elevated temperatures. Chemical resistance is excellent to greases, oils, and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-HPN-9350-HS-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-------------|---------------------------|-----------------------|
| Density | 1.06 g/cc | 0.0383 lb/in ³ | ISO 1183 |
| Water Absorption | 6.8 % | 6.8 % | ISO 62 |
| Moisture Absorption at Equilibrium | 1.9 % | 1.9 % | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------|---------------------|-----------------------------------|
| Hardness, Rockwell R | 80 | 80 | ASTM Test |
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | 50mm/min; ISO 527 |
| | 50.0 MPa | 7250 psi | 2 in/min; ASTM Test |
| Elongation at Break | >= 50 % | >= 50 % | 50mm/min, Nominal strain; ISO 527 |
| | >= 100 % | >= 100 % | 2 in/min; ASTM Test |
| Elongation at Yield | 4.5 % | 4.5 % | 50mm/min; ISO 527 |
| | 5.0 % | 5.0 % | 2 in/min; ASTM Test |
| Tensile Modulus | 1.70 GPa | 247 ksi | 1mm/min; ISO 527 |
| Flexural Strength | 50.0 MPa | 7250 psi | ISO Data |
| | 69.0 MPa | 10000 psi | ASTM Test |
| | 9.50 MPa | 1380 psi | ASTM Test |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 10.0 MPa | 1450 psi | ASTM Test |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 15.0 MPa | 2180 psi | ASTM Test |

| Mechanical Properties | @Temperature 65.0 °C Metric | @Temperature 149 °F English | Comments |
|-------------------------|--------------------------------|--------------------------------|-----------|
| | 105 MPa | 15200 psi | ASTM Test |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Flexural Modulus | 1.45 GPa | 210 ksi | ISO Data |
| | 1.73 GPa | 251 ksi | ASTM Test |
| | 0.190 GPa | 27.6 ksi | ASTM Test |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 0.220 GPa | 31.9 ksi | ASTM Test |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 0.375 GPa | 54.4 ksi | ASTM Test |
| | @Temperature 65.0 °C | @Temperature 149 °F | |
| Izod Impact, Notched | 5.90 J/cm | 11.1 ft-lb/in | ASTM Test |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| Charpy Impact Unnotched | NB | NB | ISO 179 |
| Charpy Impact, Notched | 4.00 J/cm ² | 19.0 ft-lb/in ² | ISO 179 |
| | 0.900 J/cm ² | 4.28 ft-lb/in ² | ISO 179 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|--|---------|---------|-----------|
| Melting Point | 220 °C | 428 °F | 10 K/min |
| | 220 °C | 428 °F | ASTM Test |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 °C | 122 °F | ISO 75 |
| | 55.0 °C | 131 °F | ASTM Test |

| Descriptive Properties | Value | Comments |
|------------------------------|----------------|----------|
| Color | Natural | |
| Commercial Status | Active America | |
| Form | Pellets | |
| Impact Modified | Yes | |
| Primary Processing Technique | Extrusion | |

| Processing Descriptive Properties | Profile Extrusion Value | Comments |
|--------------------------------------|-----------------------------------|----------|
| | Sheet extrusion | |
| Special characteristic | Heat stabilized or stable to heat | |
| UL.UL-C | Yes | |

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