

DSM Novamid® 1010C2 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Easy Molding Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1010C2-PA6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|------------------------|---------------------------|---------------------------------------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | dry; ISO 1183 |
| Moisture Absorption | 3.30 % | 3.30 % | Sim. To ISO 62 |
| Viscosity Test | 118 cm ³ /g | 118 cm ³ /g | Viscosity Number; ISO 307, 1157, 1628 |
| Linear Mold Shrinkage, Flow | 0.010 cm/cm | 0.010 in/in | Sim. To ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | Sim. To ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------|----------------------|--------------------|
| Tensile Strength, Yield | 54.0 MPa | 7830 psi | cond; ISO 527-1/-2 |
| | 87.0 MPa | 12600 psi | dry; ISO 527-1/-2 |
| Elongation at Break | 18 % | 18 % | dry; ISO 527-1/-2 |
| | >= 50 % | >= 50 % | cond; ISO 527-1/-2 |
| Elongation at Yield | 4.2 % | 4.2 % | dry; ISO 527-1/-2 |
| | 21 % | 21 % | cond; ISO 527-1/-2 |
| Tensile Modulus | 1.70 GPa | 247 ksi | cond; ISO 527-1/-2 |
| | 3.40 GPa | 493 ksi | dry; ISO 527-1/-2 |
| Flexural Strength | 49.0 MPa | 7110 psi | cond; ISO 178 |
| | 112 MPa | 16200 psi | dry; ISO 178 |
| Flexural Modulus | 1.00 GPa | 145 ksi | cond; ISO 178 |
| | 2.80 GPa | 406 ksi | dry; ISO 178 |
| Charpy Impact Unnotched | NB | NB | cond; ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | NB | NB | dry; ISO 179/1eU |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|------------------------|--------------------------------|---------------------------------|-------------------|
| Charpy Impact, Notched | 0.440 J/cm ² | 2.09 ft-lb/in ² | dry; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 2.60 J/cm ² | 12.4 ft-lb/in ² | cond; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---------------------|----------------------|--------------------------|
| CTE, linear, Parallel to Flow | 70.0 µm/m-°C | 38.9 µin/in-°F | dry; ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 80.0 µm/m-°C | 44.4 µin/in-°F | dry; ISO 11359-1/-2 |
| Melting Point | 220 °C | 428 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 180 °C | 356 °F | dry; ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 °C | 149 °F | dry; ISO 75-1/-2 |
| Flammability, UL94 | V-0 | V-0 | dry; IEC 60695-11-10 |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|------------------|
| Volume Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | dry; IEC 60093 |
| Surface Resistance | 2.00e+14 ohm | 2.00e+14 ohm | cond; IEC 60093 |
| Dielectric Constant | 4.0 | 4.0 | dry; IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 4.0 | 4.0 | dry; IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 27.0 kV/mm | 686 kV/in | dry; IEC 60243-1 |
| Dissipation Factor | 0.011 | 0.011 | dry; IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.023 | 0.023 | dry; IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 600 V | 600 V | dry; IEC 60112 |

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