

Wellman Wellamid® 22LH16 XE-N Impact Modified Nylon 66, Lubricated & Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Typical Applications: Automotive fasteners, living hinge, head lamp adjustment devices, ink pen components, wire separators, hardware components, window installation clips, safety equipment. Data provided by the manufacturer, Wellman Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellamid-22LH16-XE-N-Impact-Modified-Nylon-66-Lubricated-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|--------------------|
| Density | 1.10 g/cc | 0.0397 lb/in ³ | ISO 1183 |
| Water Absorption | 1.2 % | 1.2 % | Approximate 24 hr. |
| Linear Mold Shrinkage | 0.0116 cm/cm | 0.0116 in/in | ISO 294-4 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|----------|
| Tensile Strength, Ultimate | 61.0 MPa | 8850 psi | ISO 527 |
| Elongation at Break | 80 % | 80 % | ISO 527 |
| Flexural Yield Strength | 75.0 MPa | 10900 psi | ISO 178 |
| Flexural Modulus | 2.02 GPa | 293 ksi | ISO 178 |
| Izod Impact, Notched | 1.70 J/cm | 3.18 ft-lb/in | ISO 180 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|---|
| Deflection Temperature at 1.8 MPa (264 psi) | 56.0 °C | 133 °F | ISO 75 |
| Flammability, UL94 | HB @Thickness 0.790 mm | HB @Thickness 0.0311 in | From Wellman QC Laboratory Testing; UL 94 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 277 - 293 °C | 530 - 560 °F | |
| Middle Barrel Temperature | 271 - 288 °C | 520 - 550 °F | |
| Front Barrel Temperature | 266 - 282 °C | 510 - 540 °F | |
| Nozzle Temperature | 266 - 293 °C | 510 - 560 °F | |
| Melt Temperature | 271 - 304 °C | 520 - 580 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|------------------|--|
| Drying Temperature | 79.4 °C | 175 °F | Opened bags and gaylord boxes |
| Dry Time | 2 - 4 hour | 2 - 4 hour | Opened bags and gaylord boxes |
| Moisture Content | 0.050 - 0.20 % | 0.050 - 0.20 % | During molding to prevent hydrolytic degradation |
| | <= 0.20 % | <= 0.20 % | In shipping bags, ready to mold |
| Injection Pressure | 34.5 - 138 MPa | 5000 - 20000 psi | |
| Back Pressure | 0.345 MPa | 50.0 psi | |
| Screw Speed | 30 - 120 rpm | 30 - 120 rpm | |

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