



Zytel®

nylon resin

Zytel® 70K20HSL NC010 20% Kevlar® Fiber Reinforced Nylon 66 Resin

Zytel® 70K20HSL NC010 is a heat stabilized PA66 resin modified with Kevlar® for excellent wear resistance.

| Property | Test Method | Units | Value | |
|--|--------------------|--|-------------|------------|
| | | | DAM | 50%RH |
| Mechanical | | | | |
| Stress at Break | ISO 527-1/-2 | MPa (kpsi) | 110 (16.0) | 85 (12.3) |
| Strain at Break | ISO 527-1/-2 | % | 5.2 | 7.2 |
| Tensile Modulus | ISO 527-1/-2 | MPa (kpsi) | 5300 (769) | 3500 (510) |
| Flexural Modulus | ISO 178 | MPa (kpsi) | 4900 (710) | 3300 (478) |
| Notched Izod Impact | ISO 180/1A | kJ/m ² | 5 | 7 |
| Notched Charpy Impact | ISO 179/1eA | kJ/m ² | 6 | 9 |
| Unnotched Charpy Impact | ISO 179/1eU | kJ/m ² | 50 | 65 |
| Thermal | | | | |
| Deflection Temperature 0.45MPa | ISO 75-1/-2 | °C (°F) | 255 (491) | |
| 1.80MPa | | | 222 (432) | |
| Melting Temperature | ISO 3146C | °C (°F) | 263 (505) | |
| Other | | | | |
| Density | ISO 1183 | kg/m ³ (g/cm ³) | 1190 (1.19) | |
| Water Absorption Saturation, immersed | ISO 62, Similar to | % | 6.8 | |
| Molding Shrinkage Normal | | | ISO 294-4 | % |
| Parallel | | | | |

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

Zytel® is a DuPont registered trademark.

011008/011018

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-50102.

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Product Information

Zytel® 70K20HSL NC010

| Property | Test Method | Units | Value | |
|-----------------------------|-------------|---------|-------------------|-------|
| | | | DAM | 50%RH |
| Processing | | | | |
| Melt Temperature Range | | °C (°F) | 285-305 (545-580) | |
| Mold Temperature Range | | °C (°F) | 70-120 (160-250) | |
| Processing Moisture Content | | % | <0.20 | |

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