



Zytel®

nylon resin

Zytel® 70G20HSL NC010

20% Glass Reinforced Nylon 66, Heat Stabilised & Lubricated

| Property | Test Method | Units | Value | |
|---------------------------------------|-------------|-------|-------|------|
| | | | 50%RH | DAM |
| Mechanical | | | | |
| Stress at Break 5mm/min | ISO 527-1/2 | MPa | 103 | 159 |
| Strain at Break 5mm/min | ISO 527-1/2 | % | 7 | 2,8 |
| Tensile Modulus 1mm/min | ISO 527-1/2 | MPa | 5300 | 7200 |
| Ball Indentation Hardness H 961/30 | ISO 2039-1 | MPa | 155 | 250 |
| Notched Izod Impact -30C | ISO 180/1A | kJ/m2 | 7 | 7 |
| 23C | | | 9 | 8 |
| Notched Charpy Impact -30C | ISO 179/1eA | kJ/m2 | 9 | 9 |
| 23C | | | 9 | 9 |
| Unnotched Charpy Impact -30C | ISO 179/1eU | kJ/m2 | 43 | 50 |
| 23C | | | 69 | 54 |
| Thermal | | | | |
| Deflection Temperature 0,45MPa | ISO 75-1/2 | °C | | 260 |
| 1,80MPa | | | | 251 |
| CLTE, Flow | ASTM E 831 | E-4/C | | 0,35 |
| CLTE, Transverse | ASTM E 831 | E-4/C | | 1,11 |
| Melting Temperature 10C/min | ISO 3146C | °C | | 262 |
| Vicat Softening Temperature 50N | ISO 306 | °C | | 255 |

Properties measured at 23°C unless otherwise stated.

Please refer to the Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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| Property | Test Method | Units | Value | |
|---------------------------------------|--------------------|--------|-------|-------|
| | | | 50%RH | DAM |
| Electrical | | | | |
| Surface Resistivity | IEC 93 | ohm | 1E12 | >1E15 |
| Relative Permittivity 1E6 Hz | IEC 250 | | 4,4 | 3,9 |
| Volume Resistivity | IEC 93 | ohm cm | 1E11 | >1E15 |
| Dissipation Factor 1E6 Hz | IEC 250 | E-4 | 700 | 160 |
| CTI | IEC 112 | V | | 400 |
| Flammability | | | | |
| Flammability at 1.6mm Nominal UL94 | UL94 | | | HB |
| UL94 Rating at Min. Thickness | UL94 | | | HB |
| UL94 Min. Thickness Tested | UL94 | mm | | 0,7 |
| Other | | | | |
| Density | ISO 1183 | kg/m3 | | 1290 |
| Hardness, Rockwell | ISO 2039/2 | | R115 | R122 |
| Humidity Absorption | ISO 62, Similar to | % | | 2,1 |
| Water Absorption Equilibrium 50%RH | ISO 62, Similar to | % | | 6,8 |
| Mould Shrinkage | ISO 2577 | % | | |
| Flow | | | | 0,4 |
| Transverse | | | | 1,2 |
| Physical | | | | |
| Viscosity Number | | | | 148 |

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