# Lanxess DurethanÂ® BKV 25 H2.0 LT 904040 Nylon 6, 25% Glass Fiber

**Category :** Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

**Material Notes:**

PA 6, injection molding grade, 25% glass fibers, good heat-ageing resistance, laser-weldable

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-25-H20-LT-904040-Nylon-6-25-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.32 g/cc | 0.0477 lb/inÂ³ | ISO 1183 |
| Water Absorption | 7.5 % | 7.5 % | Test Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 2.2 % | 2.2 % | 23Â°C/50% R.H.; Test Sim. to ISO 62 |
| Viscosity Test | 140 cmÂ³/g | 140 cmÂ³/g | Viscosity number; ISO 307, 1157, 1628 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Tensile Strength at Break | 90.0 MPa | 13100 psi | Conditioned; ISO 527-1/-2 |
| | 160 MPa | 23200 psi | ISO 527-1/-2 |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527-1/-2 |
| | 6.0 % | 6.0 % | Conditioned; ISO 527-1/-2 |
| Tensile Modulus | 5.10 GPa | 740 ksi | Conditioned; ISO 527-1/-2 |
| | 8.40 GPa | 1220 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 4.50 J/cmÂ²<br>@Temperature -30.0 Â°C | 21.4 ft-lb/inÂ²<br>@Temperature -22.0 Â°F | ISO 179/1eU |
| | 4.50 J/cmÂ²<br>@Temperature -30.0 Â°C | 21.4 ft-lb/inÂ²<br>@Temperature -22.0 Â°F | Conditioned; ISO 179/1eU |
| | 6.00 J/cmÂ²<br>@Temperature 23.0 Â°C | 28.6 ft-lb/inÂ²<br>@Temperature 73.4 Â°F | ISO 179/1eU |
| | 8.00 J/cmÂ²<br>@Temperature 23.0 Â°C | 38.1 ft-lb/inÂ²<br>@Temperature 73.4 Â°F | Conditioned; ISO 179/1eU |
| | <= 1.00 J/cmÂ² | <= 4.76 ft-lb/inÂ² | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Charpy Impact, Notched | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | ISO 179/1eA |
| | <= 1.00 J/cmÂ² @Temperature -30.0 Â°C | <= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F | Conditioned; ISO 179/1eA |
| | 1.00 J/cmÂ² @Temperature 23.0 Â°C | 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F | Conditioned; ISO 179/1eA |
| | <= 1.00 J/cmÂ² @Temperature 23.0 Â°C | <= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F | ISO 179/1eA |
| Impact | 926 | 926 | Puncture maximum force (N); ISO 6603-2 |
| | 832 @Temperature -30.0 Â°C | 832 @Temperature -22.0 Â°F | Puncture maximum force (N); ISO 6603-2 |
| Puncture Energy | 3.40 J | 2.51 ft-lb | ISO 6603-2 |
| | 2.60 J @Temperature -30.0 Â°C | 1.92 ft-lb @Temperature -22.0 Â°F | ISO 6603-2 |
| | 2.60 J @Temperature -30.0 Â°C | 1.92 ft-lb @Temperature -22.0 Â°F | Conditioned; ISO 6603-2 |
| Tensile Creep Modulus, 1 hour | 4500 MPa | 653000 psi | ISO 899-1 |
| Tensile Creep Modulus, 1000 hours | 3500 MPa | 508000 psi | ISO 899-1 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| CTE, linear, Parallel to Flow | 30.0 Âµm/m-Â°C | 16.7 Âµin/in-Â°F | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 90.0 Âµm/m-Â°C | 50.0 Âµin/in-Â°F | ISO 11359-1/-2 |
| Melting Point | 222 Â°C | 432 Â°F | 10Â°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 Â°C | 419 Â°F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 Â°C | 392 Â°F | ISO 75-1/-2 |
| Deflection Temperature at 8.0 MPa | 120 Â°C | 248 Â°F | ISO 75-1/-2 |
| Flammability, UL94 | HB | HB | IEC 60695-11-10 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB<br>@Thickness 3.20 mm | HB<br>@Thickness 0.126 in | IEC 60695-11-10 |
| Oxygen Index | 23 % | 23 % | ISO 4589-1/-2 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Volume Resistivity | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm | Conditioned; IEC 60093 |
| | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+12 ohm | 1.00e+12 ohm | IEC 60093 |
| Dielectric Constant | 4.0<br>@Frequency 1.00e+6 Hz | 4.0<br>@Frequency 1.00e+6 Hz | IEC 60250 |
| | 4.0<br>@Frequency 100 Hz | 4.0<br>@Frequency 100 Hz | IEC 60250 |
| | 5.0<br>@Frequency 1.00e+6 Hz | 5.0<br>@Frequency 1.00e+6 Hz | Conditioned; IEC 60250 |
| | 15<br>@Frequency 100 Hz | 15<br>@Frequency 100 Hz | Conditioned; IEC 60250 |
| Dielectric Strength | 35.0 kV/mm | 889 kV/in | Conditioned; IEC 60243-1 |
| | 40.0 kV/mm | 1020 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0050<br>@Frequency 100 Hz | 0.0050<br>@Frequency 100 Hz | IEC 60250 |
| | 0.015<br>@Frequency 1.00e+6 Hz | 0.015<br>@Frequency 1.00e+6 Hz | IEC 60250 |
| | 0.16<br>@Frequency 1.00e+6 Hz | 0.16<br>@Frequency 1.00e+6 Hz | Conditioned; IEC 60250 |
| | 0.50<br>@Frequency 100 Hz | 0.50<br>@Frequency 100 Hz | Conditioned; IEC 60250 |
| Comparative Tracking Index | 400 V | 400 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|---|---|---|
| Additives | Release agent | |
| Features | Heat stabilized or stable to heat | |
| Form | Pellets | |
| ISO Shortname | ISO 1874-PA 6, MHR ,14-080, GF25 | |
| Processing | Injection molding | |
| Region | Asia Pacific | |
| | Europe | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |

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