

Lanxess Durethan® BKV 35 H2.0 EF 900116 Nylon 6, 35% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

PA 6, injection molding grade, 35% glass fibers, good heat-ageing resistance, good flowability (easy flow)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-35-H20-EF-900116-Nylon-6-35-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|--|
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0021 cm/cm | 0.0021 in/in | ISO 294-4, 2577 |
| Linear Mold Shrinkage, Transverse | 0.0060 cm/cm | 0.0060 in/in | ISO 294-4, 2577 |
| Melt Flow | 60 g/10 min @Load 5.00 kg, Temperature 260 °C | 60 g/10 min @Load 11.0 lb, Temperature 500 °F | Estimated using room temperature density; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|--|---------------------------|
| Tensile Strength at Break | 115 MPa | 16700 psi | Conditioned; ISO 527-1/-2 |
| | 190 MPa | 27600 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 | 6.70 GPa | 972 ksi | Conditioned; ISO 527-1/-2 |
| | 10.5 GPa | 1520 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 5.50 J/cm ² @Temperature -30.0 °C | 26.2 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| | 5.50 J/cm ² @Temperature -30.0 °C | 26.2 ft-lb/in ² @Temperature -22.0 °F | Conditioned; ISO 179/1eU |
| | 7.00 J/cm ² @Temperature 23.0 °C | 33.3 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| | 8.50 J/cm ² @Temperature 23.0 °C | 40.4 ft-lb/in ² @Temperature 73.4 °F | Conditioned; ISO 179/1eU |

| Mechanical Properties | Metric | English | Comments |
|------------------------|---------------------------|----------------------------|--|
| Charpy Impact, Notched | 1.00 J/cm ² | 4.76 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| | 1.10 J/cm ² | 5.23 ft-lb/in ² | Conditioned; ISO 179/1eA |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| | 1.50 J/cm ² | 7.14 ft-lb/in ² | Conditioned; ISO 179/1eA |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Impact | 833 | 833 | Puncture maximum force (N); ISO 6603-2 |
| | 760 | 760 | Puncture maximum force (N); ISO 6603-2 |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| Puncture Energy | 2.30 J | 1.70 ft-lb | ISO 6603-2 |
| | 1.60 J | 1.18 ft-lb | ISO 6603-2 |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| | 1.60 J | 1.18 ft-lb | Conditioned; ISO 6603-2 |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |

| 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 | 220 Â°C | 428 Â°F | 10Â°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 Â°C | 428 Â°F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Â°C | 410 Â°F | ISO 75-1/-2 |
| Deflection Temperature at 8.0 MPa | 165 Â°C | 329 Â°F | ISO 75-1/-2 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|-----------|
| Comparative Tracking Index | 425 V | 425 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------------------|----------|
| Additives | Release agent | |
| Features | Heat stabilized or stable to heat | |
| Form | Pellets | |
| ISO Shortname | ISO1874-PA6, MHR, 10-100, GF35 | |
| Processing | Injection molding | |
| Region | Asia Pacific | |
| | Europe | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |

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