

Lanxess Durethan® BKV 50 H2.0 EF 900116 Nylon 6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

PA 6, injection molding grade, 50% glass fibers, good heat-ageing resistance, low viscosity (easy flow) Application Examples: mirror baseplates

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-50-H20-EF-900116-Nylon-6-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0019 cm/cm	0.0019 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0051 cm/cm	0.0051 in/in	ISO 294-4, 2577
Melt Flow	36 g/10 min @Load 5.00 kg, Temperature 270 °C	36 g/10 min @Load 11.0 lb, Temperature 518 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	Conditioned; ISO 527-1/-2
	225 MPa	32600 psi	ISO 527-1/-2
Elongation at Break	2.3 %	2.3 %	ISO 527-1/-2
	3.5 %	3.5 %	Conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	Conditioned; ISO 527-1/-2
	16.5 GPa	2390 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU
	8.50 J/cm ² @Temperature -30.0 °C	40.4 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	9.50 J/cm ² @Temperature -30.0 °C	45.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	9.50 J/cm ² @Temperature 23.0	45.2 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Impact	1179	1179	Puncture maximum force (N); ISO 6603-2
	1000	1000	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	4.30 J	3.17 ft-lb	ISO 6603-2
	3.40 J	2.51 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.40 J	2.51 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	180 °C	356 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+11 ohm-cm	4.00e+11 ohm-cm	Conditioned; IEC 60093
	7.00e+14 ohm-cm	7.00e+14 ohm-cm	IEC 60093
Dielectric Constant	4.2	4.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.7	4.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.8	4.8	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	12.9	12.9	

Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	Conditioned; IEC 60250 Comments
Dielectric Strength	34.0 kV/mm	864 kV/in	Conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0135	0.0135	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0774	0.0774	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.2622	0.2622	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
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	ISO1874-PA6, MHR, 10-160, GF50	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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