

Lanxess Durethan® BKV 30 W1 000000 Nylon 6, 30% Glass Fiber

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

Material Notes:

PA 6, Injection molding grade, 30% glass fibers, weather stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-W1-000000-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	140 cm ³ /g	140 cm ³ /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	Conditioned; ISO 527-1/-2
	180 MPa	26100 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	7.0 %	7.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.10 GPa	885 ksi	Conditioned; ISO 527-1/-2
	9.80 GPa	1420 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	

Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	Comments Conditioned; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	8.00 J	5.90 ft-lb	ISO 6603-2
	14.0 J	10.3 ft-lb	Conditioned; ISO 6603-2
	6.00 J	4.43 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J	4.43 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	5100 MPa	740000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	4100 MPa	595000 psi	ISO 899-1

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)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Vicat Softening Point	200 °C	392 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	22 %	22 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
			IEC 60093

Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	Comments
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
Dielectric Strength	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dissipation Factor	10	10	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Comparative Tracking Index	40.0 kV/mm	1020 kV/in	IEC 60243-1
	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.12	0.12	Conditioned; IEC 60250
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.20	0.20	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	U.V. stabilized or stable to weather	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MLR,14-100,GF30	
Processing	Injection molding	
Region	Asia Pacific	

Descriptive Properties	Value	Comments
	Near East/Africa	
	North America	
	South and Central America	

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