

Lanxess Durethan® BKV 30 F Nylon 6, Glass Filled (Unverified Data)**

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 6 \(PA6\)](#); [Nylon 6, 30% Glass Fiber Filled](#)

Material Notes: PA 6, injection molding grade, 30% glass fibers, BgVV-conformable,

Property data per ISO test methods. Information provided by Lanxess.


Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	dry
Water Absorption	7.0 %	7.0 %	dry
Moisture Absorption at Equilibrium	2.1 %	2.1 %	dry
Viscosity Number	140 cm ³ /g	1.40 dl/g	dry

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	conditioned
	180 MPa	26100 psi	dry
Elongation at Break	3.0 %	3.0 %	dry
	6.0 %	6.0 %	conditioned
Tensile Modulus	6.10 GPa	885 ksi	conditioned
	9.80 GPa	1420 ksi	dry
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry
	9.50 J/cm ²	45.2 ft-lb/in ²	conditioned
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned
	7.00 J/cm ²	33.3 ft-lb/in ²	dry
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	dry
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned
	1.00 J/cm ²	4.76 ft-lb/in ²	dry

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	conditioned
	4.0	4.0	Dry
Dielectric Constant	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	Dry
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.0	5.0	conditioned
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	10	10	conditioned
Dielectric Strength	35.0 kV/mm	889 kV/in	conditioned
	40.0 kV/mm	1020 kV/in	dry
Dissipation Factor	0.0050	0.0050	dry
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	dry
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.12	0.12	conditioned
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.20	0.20	conditioned
	@Frequency 100 Hz	@Frequency 100 Hz	

Thermal Properties **Metric** **English** **Comments**

PROPERTY	SI UNITS	ENGLISH	COMMENTS
CTE, linear, Parallel to Flow	0.200 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	0.111 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	dry, parallel
CTE, linear, Transverse to Flow	0.800 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	0.444 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	dry
Melting Point	222 $^{\circ}\text{C}$	432 $^{\circ}\text{F}$	dry
Deflection Temperature at 1.8 MPa (264 psi)	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	dry
Deflection Temperature at 8.0 MPa	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	dry
Flammability, UL94 	HB	HB	dry
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	dry
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	22 %	22 %	dry

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