

## Lanxess Durethan® BKV 20 FN00 000000 Nylon 6, 18% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

### Material Notes:

PA6, injection molding grade, 18% glass fibers, UL94 V-0 at 0,75 mm ( in house test), free of halogen and red phosphorus, specially for electro/electronic applications in regard to IEC60335-1

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-20-FN00-000000-Nylon-6-18-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-20-FN00-000000-Nylon-6-18-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.345 g/cc	0.04859 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0034 cm/cm	0.0034 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0064 cm/cm	0.0064 in/in	ISO 294-4, 2577
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 260 °C	17 g/10 min @Load 4.76 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	3.4 %	3.4 %	Nominal; ISO 527-1/-2
	4.5 %	4.5 %	Nominal, Conditioned; ISO 527-1/-2
	4.9 %	4.9 %	Conditioned; ISO 527-1/-2
Tensile Modulus	4.50 GPa	653 ksi	Conditioned; ISO 527-1/-2
	7.96 GPa	1150 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup> @Temperature 23.0 °C	21.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2

Thermal Properties CTE, linear, Transverse to Flow	Metric 90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	English 50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Comments ISO 11359-1/-2
Melting Point	222 $\text{Å}^\circ\text{C}$	432 $\text{Å}^\circ\text{F}$	10 $\text{Å}^\circ\text{C}/\text{min}$ ; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	218 $\text{Å}^\circ\text{C}$	424 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	575 V	575 V	IEC 60112

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MFR,-080,GF20	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

## Contact Songhan Plastic Technology Co.,Ltd.

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