

Lanxess Durethan® BKV 20 FN20 000000 Nylon 6, Glass Fiber Reinforced, Flame Retardant

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

Material Notes:

PA 6, 20% glass fibers, injection molding, halogen-free flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-20-FN20-000000-Nylon-6-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.315 g/cc	1.315 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0060 cm/cm	0.0060 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.0 %	3.0 %	d.a.m.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	6.10 GPa	885 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	150 MPa @Strain 5.00 %	21800 psi @Strain 5.00 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Yield Strength	135 MPa @Strain 3.50 %	19600 psi @Strain 3.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	5.70 GPa	827 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 180-1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	d.a.m.; ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75-1, -2

Thermal Properties	205 Â°C Metric	401 Â°F English	Comments
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 0.800 mm	@Diameter 0.0315 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 1.50 mm	@Diameter 0.0591 in	
	960 Â°C	1760 Â°F	GWFI; IEC 60695-2-12
	@Diameter 3.00 mm	@Diameter 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	d.a.m.; Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	
	260 Â°C	500 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.070 %	0.030 - 0.070 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GFHR, 12-060, GF20; ISO 1043-PA GF FR(30)	

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