

## Lanxess Durethan® BKV 30 G H2.0 900051 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, better surface finish and resistance to alcoholic calcium chloride-solution than BKV 30 H2.0, heat-stabilized, good heat-ageing resistance, good UV stability

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-30-G-H20-900051-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-G-H20-900051-Nylon-6-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	6.5 %	6.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	140 cm <sup>3</sup> /g	140 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	ISO 294-4, 2577

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	6.20 GPa	899 ksi	Conditioned; ISO 527-1/-2
	9.50 GPa	1380 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	ISO 179/1eU
@Temperature 23.0 °C	@Temperature 73.4 °F		
	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>  @Temperature -30.0 °C	<= 4.76 ft-lb/in <sup>2</sup>  @Temperature -22.0 °F	ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup>  @Temperature -30.0 °C	<= 4.76 ft-lb/in <sup>2</sup>  @Temperature -22.0 °F	Conditioned; ISO 179/1eA
	1.00 J/cm <sup>2</sup>  @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup>  @Temperature 73.4 °F	ISO 179/1eA
	1.30 J/cm <sup>2</sup>  @Temperature 23.0 °C	6.19 ft-lb/in <sup>2</sup>  @Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	838	838	Puncture maximum force (N); ISO 6603-2
	735  @Temperature -30.0 °C	735  @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.60 J	1.92 ft-lb	ISO 6603-2
	2.20 J  @Temperature -30.0 °C	1.62 ft-lb  @Temperature -22.0 °F	ISO 6603-2
	2.20 J  @Temperature -30.0 °C	1.62 ft-lb  @Temperature -22.0 °F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	221 Å°C	430 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	195 Å°C	383 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 Å°C	176 Å°F	ISO 75-1/-2
Vicat Softening Point	210 Å°C	410 Å°F	50Å°C/h 50N; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	23 %	23 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.3	4.3	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	7.0	7.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	31.0 kV/mm	787 kV/in	Conditioned; IEC 60243-1
	34.0 kV/mm	864 kV/in	IEC 60243-1
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.050	0.050	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.13	0.13	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Comparative Tracking Index Electrical Properties	475 V Metric	475 V English	IEC 60112 Comments
Descriptive Properties	Value		Comments
Additives	Release agent		
Features	Heat stabilized or stable to heat		
Form	Pellets		
ISO Shortname	ISO 1874-PA 6,MHR,14-100,GF30		
Processing	Injection molding		
Region	Asia Pacific		
	Europe		
	Near East/Africa		
	North America		
	South and Central America		

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