

## Lanxess Durethan® BKV 30 HTS 901510 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, very good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-30-HTS-901510-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-HTS-901510-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	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.1 %	2.1 %	23 <sup>o</sup> 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
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 270 <sup>o</sup> C	11 g/10 min @Load 11.0 lb, Temperature 518 <sup>o</sup> F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Conditioned; ISO 527-1/-2
	170 MPa	24700 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.20 GPa	754 ksi	Conditioned; ISO 527-1/-2
	10.0 GPa	1450 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	28.6 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	Conditioned; ISO 179/1eU
	7.00 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	33.3 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eU
	8.00 J/cm <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	38.1 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 179/1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English °F	Conditioned; ISO 179/1eU Comments
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	7.00 J	5.16 ft-lb	ISO 6603-2
	12.0 J	8.85 ft-lb	Conditioned; ISO 6603-2

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)	205 °C	401 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	110 °C	230 °F	ISO 75-1/-2
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	23 %	23 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
	4.00e+15 ohm-cm	4.00e+15 ohm-cm	Conditioned; IEC 60093

Electrical Properties	Metric <sup>1 ohm</sup>	English <sup>1 ohm</sup>	Comments
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.7	4.7	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	5.1	5.1	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	38	38	
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.023	0.023	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.036	0.036	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.13	0.13	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.85	0.85	
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	425 V	425 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,14-110,GF30	
Processing	Injection molding	
Region	Asia Pacific	

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

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