

## Lanxess Durethan® BKV 30 H2.0 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, good heat-ageing resistance  
Application Examples: pedal brackets, automotive front end structures

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-30-H20-901510-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-H20-901510-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°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	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0069 cm/cm	0.0069 in/in	ISO 294-4, 2577
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 260 °C	18 g/10 min @Load 11.0 lb, Temperature 500 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 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
	6.0 %	6.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.90 GPa	856 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> @Temperature -30.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	6.00 J/cm <sup>2</sup> @Temperature -30.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	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	
	<= 1.00 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>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	1000	1000	Puncture maximum force (N); ISO 6603-2
	1230	1230	Puncture maximum force, Conditioned (N); ISO 6603-2
	860	860	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	3.00 J	2.21 ft-lb	ISO 6603-2
	6.00 J	4.43 ft-lb	Conditioned; ISO 6603-2
	3.00 J	2.21 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 J	2.21 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	5100 MPa	740000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	4100 MPa	595000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-1/-2

Thermal Properties <small>CTE, linear, transverse to Flow</small>	Metric <small>100 Åµm/m-Å°C</small>	English <small>500 Åµm/in-Å°F</small>	Comments <small>ISO 11353-1/-2</small>
Melting Point	222 Å°C	432 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)	200 Å°C	392 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	110 Å°C	230 Å°F	ISO 75-1/-2
Vicat Softening Point	200 Å°C	392 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10
Oxygen Index	22 %	22 %	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	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.2 @Frequency 100 Hz	4.2 @Frequency 100 Hz	IEC 60250
	4.4 @Frequency 1.00e+6 Hz	4.4 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	12 @Frequency 100 Hz	12 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	Conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	IEC 60250
	0.017	0.017	

Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	IEC 60250 Comments
	0.078	0.078	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.255	0.255	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	425 V	425 V	IEC 60112

Descriptive Properties	Value	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China