

## Lanxess Durethan® BKV 35 H2.0 901510 Nylon 6, 35% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

### Material Notes:

PA 6, injection molding grade, 35% glass fibers, good heat-ageing resistance  
Application Examples: automotive structures

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-35-H20-901510-Nylon-6-35-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-35-H20-901510-Nylon-6-35-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 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

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
	5.0 %	5.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.80 GPa	986 ksi	Conditioned; ISO 527-1/-2
	10.7 GPa	1550 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	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>	

Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	ISO 179/1eA Comments
	1.20 J/cm <sup>2</sup> @Temperature 23.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA
	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	1062	1062	Puncture maximum force (N); ISO 6603-2
	945 @Temperature -30.0 °C	945 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	3.90 J	2.88 ft-lb	ISO 6603-2
	3.30 J @Temperature -30.0 °C	2.43 ft-lb @Temperature -22.0 °F	ISO 6603-2
	3.30 J @Temperature -30.0 °C	2.43 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2
Tensile Creep Modulus, 1 hour	6000 MPa	870000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	4900 MPa	711000 psi	ISO 899-1

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	150 °C	302 °F	ISO 75-1/-2
Vicat Softening Point	200 °C	392 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10
Oxygen Index	23 %	23 %	ISO 4589-1/-2

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	475 V	475 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,GF35	
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