

## Lanxess Durethan® BKV 35 HTS 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, very good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-35-HTS-901510-Nylon-6-35-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-35-HTS-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
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 280 °C	18 g/10 min @Load 11.0 lb, Temperature 536 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	Conditioned; ISO 527-1/-2
	190 MPa	27600 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	6.30 GPa	914 ksi	Conditioned; ISO 527-1/-2
	11.5 GPa	1670 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup> @Temperature -30.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	6.50 J/cm <sup>2</sup> @Temperature -30.0 °C	30.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	7.50 J/cm <sup>2</sup> @Temperature 23.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	8.50 J/cm <sup>2</sup> @Temperature 23.0 °C	40.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 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	
Puncture Energy	9.00 J	6.64 ft-lb	ISO 6603-2
	13.0 J	9.59 ft-lb	Conditioned; ISO 6603-2
	7.00 J	5.16 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J	5.16 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
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	140 °C	284 °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	7.00e+14 ohm-cm	7.00e+14 ohm-cm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0	5.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	0.0265 Metric	0.0265 English	Comments
Dielectric Loss Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.045	0.045	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
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,GF35	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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