

## Lanxess Durethan® BG 30 X 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/glass spheres, good surface, good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BG-30-X-H20-901510-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BG-30-X-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	2.2 %	2.2 %	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	35 g/10 min @Load 5.00 kg, Temperature 260 <sup>o</sup> C	35 g/10 min @Load 11.0 lb, Temperature 500 <sup>o</sup> F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
	10 %	10 %	Conditioned; ISO 527-1/-2
Tensile Modulus	3.10 GPa	450 ksi	Conditioned; ISO 527-1/-2
	6.30 GPa	914 ksi	ISO 527-1/-2
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	16.7 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eU
	3.50 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	16.7 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	Conditioned; ISO 179/1eU
	3.50 J/cm <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	16.7 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 179/1eU
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments Conditioned; ISO 179/1eU
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	
Impact	<= 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	
Impact	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	680	680	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	650	650	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.30 J	1.70 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.00 J	1.48 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.00 J	1.48 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	222 Å°C	432 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 Å°C	374 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 Å°C	140 Å°F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	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
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	4.5	4.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	IEC 60243-1
Dissipation Factor	0.0189	0.0189	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	0.0223	0.0223	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	325 V	325 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,14-060, (GB+GF)30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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