

## Lanxess Durethan® BKV 30 H2.0 EF 901510 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

### Material Notes:

PA 6, 30% glass fibers, good flowability (Easy Flow), good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-30-H20-EF-901510-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-H20-EF-901510-Nylon-6-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ISO 60
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.1 % @Temperature 23.0 °C	2.1 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	7.0 % @Temperature 23.0 °C	7.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	60x60x2; 280 °C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0081 cm/cm	0.0081 in/in	60x60x2; 280 °C / MT 80°C; 600 bar; ISO 294-4
Melt Flow	101 g/10 min @Load 5.00 kg, Temperature 270 °C	101 g/10 min @Load 11.0 lb, Temperature 518 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	193 MPa	28000 psi	ISO 2039-1
Tensile Strength at Break	100 MPa	14500 psi	Conditioned; ISO 527-1/-2
	170 MPa	24700 psi	ISO 527-1/-2
Elongation at Break	3.2 %	3.2 %	ISO 527-1/-2
	5.8 %	5.8 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.50 GPa	798 ksi	Conditioned; ISO 527-1/-2
	9.00 GPa	1310 ksi	ISO 527-1/-2
Flexural Strength	170 MPa	24700 psi	Conditioned; ISO 178-A
	260 MPa	37700 psi	ISO 178-A

Mechanical Properties	Metric <sup>MPa</sup>	English <sup>psi</sup>	Comments
	255 MPa	37000 psi	at 3.5% strain; ISO 178-A
Flexural Modulus	5.00 GPa	725 ksi	Conditioned; ISO 178-A
	8.40 GPa	1220 ksi	ISO 178-A
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180-1A
	<= 10.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180-1A
	20.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 180-1U
	55.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180-1U
	60.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180-1U
	75.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 180-1U
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	ISO 179/1eU
	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
	6.00 J/cm <sup>2</sup> @Temperature 23.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	8.00 J/cm <sup>2</sup> @Temperature 23.0	38.1 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact	803	803	Puncture maximum force (N); ISO 6603-2
	744	744	
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	Puncture maximum force (N); ISO 6603-2
	2.10 J	1.55 ft-lb	
Puncture Energy	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ISO 6603-2
	2.20 J	1.62 ft-lb	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	ISO 6603-2

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
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	220 Å°C	428 Å°F	10Å°C/min; ISO 11357-1/-3
Hot Ball Pressure Test	210 Å°C	410 Å°F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	150 Å°C	302 Å°F	ISO 75-1/-2
Vicat Softening Point	210 Å°C	410 Å°F	120Å°C/hr; 50N; ISO 306

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.0 kV/mm	635 kV/in	Conditioned; IEC 60243-1

Electrical Properties	33.0 kV/mm Metric	838 kV/in English	IEC 60243-1 Comments
Comparative Tracking Index	400 V	400 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 Â°C	482 - 554 Â°F	Injection Molding
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	Injection Molding
Drying Temperature	80.0 Â°C @Time 7200 - 22000 sec	176 Â°F @Time 2.0 - 6.0 hour	
Moisture Content	0.03 - 0.12 %	0.03 - 0.12 %	Karl Fischer method

Descriptive Properties	Value	Comments
Additives	Release agent	
Form	Pellets	
ISO Shortname	ISO1874-PA6, MHR, 10-090, GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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