

## Lanxess Durethan® BKV 130 H2.0 DUS008 901510 Nylon 6, Glass Fiber Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

### Material Notes:

PA 6, 30% glass fibers, injection molding, impact modified, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-130-H20-DUS008-901510-Nylon-6-Glass-Fiber-Reinforced-Impact-Modified.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-H20-DUS008-901510-Nylon-6-Glass-Fiber-Reinforced-Impact-Modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Water Absorption at Saturation	6.6 %	6.6 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
	0.010 cm/cm	0.010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	cond.; ISO 527-1, -2; 5 mm/min
	160 MPa	23200 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.4 %	3.4 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	8.0 %	8.0 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	0.930 GPa	135 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
	5.20 GPa	754 ksi	cond.; ISO 527-1, -2; 1 mm/min
Flexural Strength	155 MPa	22500 psi	cond., 2 mm/min; ISO 178-A
	@Strain 6.70 %	@Strain 6.70 %	
Flexural Yield Strength	250 MPa	36300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 4.30 %	@Strain 4.30 %	
Flexural Yield Strength	125 MPa	18100 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	

Mechanical Properties	Metric 240 MPa	English 34500 psi	Comments
	@Strain 3.50 %	@Strain 3.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	4.70 GPa	682 ksi	cond., 2 mm/min; ISO 178-A
	8.60 GPa	1250 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	cond.; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	22.0 kJ/m <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	cond.; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	cond.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	80.0 kJ/m <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	85.0 kJ/m <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	cond.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eU
	@Temperature 23.0		

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	cond.; 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>	d.a.m.; 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>	cond.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	d.a.m.; 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>	cond.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	2.50 J	1.84 ft-lb	ISO 6603-2
	@Load <=78.0 kg, Temperature -30.0 °C	@Load <=172 lb, Temperature -22.0 °F	
	4.30 J	3.17 ft-lb	ISO 6603-2
	@Load <=101 kg, Temperature 23.0 °C	@Load <=223 lb, Temperature 73.4 °F	

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
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	221 Å°C	430 Å°F	10Å°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	218 Å°C	424 Å°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	202 Å°C	396 Å°F	ISO 75-1, -2
Vicat Softening Point	212 Å°C	414 Å°F	120Å°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 554 Â°F	
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6-HI, GHR, 14-090, GF30	

## 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