

## Lanxess Durethan® BKV 30 H2.0 EF 000000 Nylon 6, Glass Fiber Reinforced

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

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-30-H20-EF-000000-Nylon-6-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-30-H20-EF-000000-Nylon-6-Glass-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	cond.; ISO 527-1, -2; 5 mm/min
	175 MPa	25400 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
	4.5 %	4.5 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	5.50 GPa	798 ksi	cond.; ISO 527-1, -2; 1 mm/min
	10.0 GPa	1450 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	160 MPa	23200 psi	cond., 2 mm/min; ISO 178-A
	@Strain 5.00 %	@Strain 5.00 %	
Flexural Strength	260 MPa	37700 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 4.00 %	@Strain 4.00 %	
Flexural Yield Strength	140 MPa	20300 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Yield Strength	250 MPa	36300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	

Mechanical Properties	Metric <sup>1)a</sup>	English	Comments <sup>1)/min; ISO 178-A</sup>
	8.50 GPa	1230 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
	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m <sup>2</sup>	23.8 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>	d.a.m.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80.0 kJ/m <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 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>	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	cond.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	219 °C	426 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 Â°C	482 - 554 Â°F	
	270 Â°C	518 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 120 Â°C	176 - 248 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, GHR, 10-090, 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