

## Lanxess Durethan® BKV 230 DUS008 000000 Nylon 6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Filled, Impact Grade , Nylon 6, Heat Stabilized

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-BKV-230-DUS008-000000-Nylon-6-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-230-DUS008-000000-Nylon-6-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.302 g/cc	0.04704 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	conditioned, 5 mm/min; ISO 527-1,-2
	130 MPa	18900 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	4.1 %	4.1 %	5 mm/min; ISO 527-1,-2
	8.6 %	8.6 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	4.20 GPa	609 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	8.50 GPa	1230 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	125 MPa	18100 psi	conditioned, 2 mm/min; ISO 178-A
	205 MPa	29700 psi	2 mm/min; ISO 178-A
Flexural Modulus	4.20 GPa	609 ksi	conditioned, 2 mm/min; ISO 178-A
	7.40 GPa	1070 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	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>	conditioned; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	35.0 kJ/m <sup>2</sup>	16.2 ft-lb/in <sup>2</sup>	conditioned; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	75.0 kJ/m <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	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>	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>	conditioned; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	95.0 kJ/m <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	conditioned; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	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>	conditioned; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.70 J/cm <sup>2</sup>	17.6 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eA

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	Comments
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Thermal Properties	Metric	English	Comments
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Melting Point	220 °C	428 °F	10 °C/min; ISO 11357-1,-3
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Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ISO 75-1,-2
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Deflection Temperature at 1.8 MPa (264 psi)	198 °C	388 °F	ISO 75-1,-2
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Shrinkage	0.0700 %	0.0700 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

	0.160 %	0.160 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

Processing Properties	Metric	English	Comments
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Melt Temperature	280 °C	536 °F	Injection molding; ISO 294
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Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
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Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	

Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	Karl Fischer test
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## Contact Songhan Plastic Technology Co.,Ltd.

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