

## Lanxess Durethan® DP BKV 30 XF 000000 Nylon 6, 30% Glass Fiber

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

### Material Notes:

PA 6, 30% glass fibers, injection molding, improved flowability, improved surface finish Information provided by LANXESS.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ISO 1183
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage, Flow	0.00030 cm/cm	0.00030 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0022 cm/cm	0.0022 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.00090 cm/cm	0.00090 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0053 cm/cm	0.0053 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Melt Flow	28 g/10 min @Load 5.00 kg, Temperature 260 °C	28 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	155 MPa	22500 psi	ISO 2039-1
Tensile Strength at Break	95.0 MPa	13800 psi	cond.; ISO 527-1, -2; 5 mm/min
	165 MPa	23900 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.0 %	3.0 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	5.0 %	5.0 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	5.50 GPa	798 ksi	cond.; ISO 527-1, -2; 1 mm/min
	8.60 GPa	1250 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	150 MPa @Strain 5.80 %	21800 psi @Strain 5.80 %	cond., 2 mm/min; ISO 178-A
	240 MPa @Strain 3.80 %	34800 psi @Strain 3.80 %	d.a.m., 2 mm/min; ISO 178-A

Mechanical Properties	130 MPa Metric	18900 psi English	Comments 10mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
	235 MPa	34100 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	4.90 GPa	711 ksi	cond., 2 mm/min; ISO 178-A
	7.50 GPa	1090 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 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)	60.0 kJ/m <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	d.a.m.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	60.0 kJ/m <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	cond.; 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	
	70.0 kJ/m <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	d.a.m.; ISO 179-1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	cond.; ISO 179-1eU

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	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	220 Å°C	428 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)	165 Å°C	329 Å°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, GR, 10-090, GF30	

## Contact Songhan Plastic Technology Co.,Ltd.

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