

Lanxess Durethan® BKV 130 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 Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-130-DUS008-901510-Nylon-6-Glass-Fiber-Reinforced-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ISO 1183
Moisture Absorption at Equilibrium	1.9 %	1.9 %	50% RH; ISO 62
Water Absorption at Saturation	6.3 %	6.3 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	cond.; ISO 527-1, -2; 5 mm/min
	155 MPa	22500 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.5 %	3.5 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	7.5 %	7.5 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	5.20 GPa	754 ksi	cond.; ISO 527-1, -2; 1 mm/min
	9.30 GPa	1350 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 6.30 %	@Strain 6.30 %	
Flexural Yield Strength	245 MPa	35500 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 4.00 %	@Strain 4.00 %	
Flexural Yield Strength	135 MPa	19600 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	

Mechanical Properties	Metric	English	Comments
	240 MPa	34800 psi	
	@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 ²	<= 4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	d.a.m.; ISO 180-1A
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	cond.; ISO 180-1A
	12.0 kJ/m ²	5.71 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	d.a.m.; ISO 180-1A
	20.0 kJ/m ²	9.52 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	d.a.m.; ISO 180-1U
	70.0 kJ/m ²	33.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	cond.; ISO 180-1U
	80.0 kJ/m ²	38.1 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	d.a.m.; ISO 180-1U
	85.0 kJ/m ²	40.4 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	cond.; ISO 180-1U
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	d.a.m.; ISO 179-1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	cond.; ISO 179-1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	
	@Temperature 23.0		d.a.m.; ISO 179-1eU

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
	9.00 J/cm ²	42.8 ft-lb/in ²	cond.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	2.60 J	1.92 ft-lb	ISO 6603-2
	@Load <=76.5 kg, Temperature -30.0 °C	@Load <=169 lb, Temperature -22.0 °F	
	4.00 J	2.95 ft-lb	ISO 6603-2
	@Load <=94.8 kg, Temperature 23.0 °C	@Load <=209 lb, 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	222 °C	432 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1, -2
Vicat Softening Point	213 °C	415 °F	120°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	
	280 °C	536 °F	for test specimens; ISO 294
Mold Temperature	80.0 °C	176 °F	for test specimens; ISO 294
	80.0 - 100 °C	176 - 212 °F	
Drying Temperature	80.0 °C	176 °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, GR, 14-090, GF30	

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