

Lanxess Durethan® BKV 15 H2.0 DUS008 901510 Nylon 6, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

PA 6, 15% glass fibers, injection molding, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-15-H20-DUS008-901510-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Moisture Absorption at Equilibrium	2.6 %	2.6 %	50% RH; ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0050 cm/cm	0.0050 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
	0.0080 cm/cm	0.0080 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	cond.; ISO 527-1, -2; 5 mm/min
	120 MPa	17400 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.4 %	2.4 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	12 %	12 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	3.10 GPa	450 ksi	cond.; ISO 527-1, -2; 1 mm/min
	6.60 GPa	957 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	100 MPa	14500 psi	cond., 2 mm/min; ISO 178-A
	@Strain 7.30 %	@Strain 7.30 %	
Flexural Yield Strength	195 MPa	28300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 4.80 %	@Strain 4.80 %	
Flexural Yield Strength	75.0 MPa	10900 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	

Mechanical Properties	Metric	English	Comments
	@Strain 3.50 %	@Strain 3.50 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	2.80 GPa	406 ksi	cond., 2 mm/min; ISO 178-A
	5.70 GPa	827 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	d.a.m.; ISO 180-1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	d.a.m.; ISO 180-1U
	90.0 kJ/m ²	42.8 ft-lb/in ²	cond.; ISO 180-1U
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	d.a.m.; ISO 179-1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	cond.; ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	cond.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	cond.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.00 J	1.48 ft-lb	ISO 6603-2
	@Load <=55.7 kg, Temperature -30.0 °C	@Load <=123 lb, Temperature -22.0 °F	
	2.20 J	1.62 ft-lb	ISO 6603-2
	@Load <=58.5 kg, Temperature 23.0 °C	@Load <=129 lb, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @Temperature 23.0 - 35.0 Â°C	English @Temperature 73.4 - 139 Â°F	ISO 11359-1, -2 Comments
Melting Point	220 Â°C	428 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	216 Â°C	421 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	ISO 75-1, -2

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, GHR, 14-070, GF15	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China