

Lanxess Durethan® BKV 15 DUS008 000000 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 Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-15-DUS008-000000-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0035 cm/cm	0.0035 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0016 cm/cm	0.0016 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0059 cm/cm	0.0059 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	cond.; ISO 527-1, -2; 5 mm/min
	130 MPa	18900 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
	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
	6.50 GPa	943 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	110 MPa	16000 psi	cond., 2 mm/min; ISO 178-A
	@Strain 8.00 %	@Strain 8.00 %	
	205 MPa	29700 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 5.30 %	@Strain 5.30 %	
Flexural Yield Strength	80.0 MPa	11600 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
	180 MPa	26100 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	3.10 GPa	450 ksi	cond., 2 mm/min; ISO 178-A

Mechanical Properties	Metric ^{Pa}	English	Comments ^{in/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
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	40.0 kJ/m ²	19.0 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	45.0 kJ/m ²	21.4 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	85.0 kJ/m ²	40.4 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	cond.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	cond.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 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	220 °C	428 °F	10°C/min; ISO 11357-1, -3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	215 Â°C	419 Â°F	ISO 75-1, -2
Vicat Softening Point	210 Â°C @Load 5.10 kg	410 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306

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	

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GR, 14-060, GF15	

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