

Lanxess Durethan® BKV 325 Z H2.0 901510 Nylon 6, 25% Glass Fibers

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

Material Notes:

PA 6, 25% glass fibers, blow molding, impact modified, heat-ageing stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-325-Z-H20-901510-Nylon-6-25-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.283 g/cc	1.283 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	Mold Temp 80°C; Melt Temp 280°C; 600 bar; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Mold Temp 80°C; Melt Temp 280°C; 600 bar; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	Conditioned; ISO 527-1,-2
	130 MPa	18900 psi	ISO 527-1,-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1,-2
	10 %	10 %	Conditioned; ISO 527-1,-2
Tensile Modulus	4.00 GPa	580 ksi	Conditioned; ISO 527-1,-2
	7.50 GPa	1090 ksi	ISO 527-1,-2
Flexural Strength	100 MPa	14500 psi	Conditioned; ISO 178
	@Strain 6.50 %	@Strain 6.50 %	
	200 MPa	29000 psi	ISO 178
	@Strain 4.50 %	@Strain 4.50 %	
Flexural Yield Strength	85.0 MPa	12300 psi	Conditioned; ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
	180 MPa	26100 psi	ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	3.40 GPa	493 ksi	Conditioned; ISO 178
	6.50 GPa	943 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	ISO 180-1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	Conditioned; ISO 180-1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	55.0 kJ/mÂ²	26.2 ft-lb/inÂ²	ISO 180-1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	Conditioned; ISO 180-1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	70.0 kJ/mÂ²	33.3 ft-lb/inÂ²	ISO 180-1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	75.0 kJ/mÂ²	35.7 ft-lb/inÂ²	Conditioned; ISO 180-1U
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	218 Â°C	424 Â°F	ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	ISO 75-1,-2
Deflection Temperature at 8.0 MPa	80.0 Â°C	176 Â°F	ISO 75-1,-2
Shrinkage	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	
	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	280 Â°C	536 Â°F	Processing conditions for test specimens; ISO 294
	270 - 290 Â°C	518 - 554 Â°F	Recommended
	80.0 Â°C	176 Â°F	Processing conditions for test

Mold Temperature Processing Properties	Metric	English	specimens: ISO 294 Comments
	80.0 - 120 Â°C	176 - 248 Â°F	Recommended
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 1.12 %	0.030 - 1.12 %	Residual; Acc. To Karl Fischer

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6-HI,BHR,14-070,GF25	

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