

Lanxess Durethan® BKV 215 H3.0 000000 Nylon 6-Copolymer, 15% Glass Fibers

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

Material Notes:

PA 6-Copolymer, 15% glass fibers, injection molding, impact modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-215-H30-000000-Nylon-6-Copolymer-15-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ISO 60
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Water Absorption at Saturation	7.0 %	7.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.00 mm	0.0030 in/in @Thickness 0.118 in	Mold Temp 80°C; Melt Temp 280°C; 400 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0083 cm/cm @Thickness 3.00 mm	0.0083 in/in @Thickness 0.118 in	Mold Temp 80°C; Melt Temp 280°C; 400 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Conditioned; ISO 527-1,-2
	85.0 MPa	12300 psi	ISO 527-1,-2
Elongation at Break	4.5 %	4.5 %	ISO 527-1,-2
	15 %	15 %	Conditioned; ISO 527-1,-2
Tensile Modulus	2.40 GPa	348 ksi	Conditioned; ISO 527-1,-2
	4.50 GPa	653 ksi	ISO 527-1,-2
Flexural Strength	75.0 MPa @Strain 8.50 %	10900 psi @Strain 8.50 %	Conditioned; ISO 178
	130 MPa @Strain 5.50 %	18900 psi @Strain 5.50 %	ISO 178
Flexural Yield Strength	55.0 MPa @Strain 3.50 %	7980 psi @Strain 3.50 %	Conditioned; ISO 178
	125 MPa	18100 psi	

Mechanical Properties	Metric @Strain 3.50 %	English @Strain 3.50 %	ISO 178 Comments
Flexural Modulus	2.20 GPa	319 ksi	Conditioned; ISO 178
	3.80 GPa	551 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
	30.0 kJ/m ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
	55.0 kJ/m ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 180-1U
Charpy Impact Unnotched	60.0 kJ/m ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	80.0 kJ/m ² @Temperature 23.0 °C	38.1 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 180-1U
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179-1eU

Mechanical Properties	8.50 J/cm ² Metric	40.4 ft-lb/in ² English	Comments Conditioned; ISO 179-1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.20 J/cm ²	5.71 ft-lb/in ²	Conditioned; ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.50 J/cm ²	16.7 ft-lb/in ²	Conditioned; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	150 Âµm/m-Â°C	83.3 Âµin/in-Â°F	ISO 11359-1,-2
Melting Point	213 Â°C	415 Â°F	ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°F	ISO 75-1,-2
Vicat Softening Point	200 Â°C	392 Â°F	120Â°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	22 %	22 %	Method A; ISO 4589-2
Shrinkage	0.050 %	0.050 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	
	0.15 %	0.15 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 Â°C,	@Temperature 248 Â°F,	

Thermal Properties	Time 14400 sec Metric	Time 4.00 hour English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 554 Â°F	Recommended
	280 Â°C	536 Â°F	Processing conditions for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Processing conditions for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 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 6/66-HI,GHR,14-050,GF15	

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