Lanxess DurethanÂ® BKV 230 H3.0 000000 Nylon 6-Copolymer, 30% Glass Fibers

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

Material Notes:

PA 6-Copolymer, 30% glass fibers, injection molding, impact modified, heat-ageing stabilized

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-230-H30-000000-Nylon-6-Copolymer-30-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/inÂ³	ISO 60
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	Mold Temp 80Â°C; Melt Temp 280Â°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 2.00 mm	0.0070 in/in @Thickness 0.0787 in	Mold Temp 80Â°C; Melt Temp 280Â°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Conditioned; ISO 527-1,-2
	125 MPa	18100 psi	ISO 527-1,-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1,-2
	8.5 %	8.5 %	Conditioned; ISO 527-1,-2
Tensile Modulus	4.40 GPa	638 ksi	Conditioned; ISO 527-1,-2
	8.00 GPa	1160 ksi	ISO 527-1,-2
Flexural Strength	115 MPa @Strain 7.00 %	16700 psi @Strain 7.00 %	Conditioned; ISO 178
	200 MPa @Strain 3.50 %	29000 psi @Strain 3.50 %	ISO 178
	205 MPa @Strain 4.30 %	29700 psi @Strain 4.30 %	ISO 178
	90.0 MPa	13100 psi	

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	@Strain 3.50 %	@Strain 3.50 %	Conditioned; ISO 178
	200 MPa @Strain 3.50 %	29000 psi @Strain 3.50 %	ISO 178
Flexural Modulus	4.10 GPa	595 ksi	Conditioned; ISO 178
	7.50 GPa	1090 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/mÂ² @Temperature -30.0 Â°C	7.14 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180-1A
	15.0 kJ/mÂ² @Temperature -30.0 Â°C	7.14 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 180-1A
	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1A
	35.0 kJ/mÂ² @Temperature 23.0 Â°C	16.7 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	75.0 kJ/mÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1U
	80.0 kJ/mÂ² @Temperature -30.0 Â°C	38.1 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 180-1U
	85.0 kJ/mÂ² @Temperature -30.0 Â°C	40.4 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 180-1U
	95.0 kJ/mÂ² @Temperature 23.0 Â°C	45.2 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 180-1U
Charpy Impact Unnotched	8.50 J/cmÂ² @Temperature 23.0 Â°C	40.4 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
	8.50 J/cmÂ² @Temperature -30.0 Â°C	40.4 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179-1eU
	9.50 J/cmÂ²	45.2 ft-lb/inÂ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179-1eU
	10.0 J/cmÂ² @Temperature 23.0 Â°C	47.6 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179-1eU
Charpy Impact, Notched	1.50 J/cmÂ² @Temperature -30.0 Â°C	7.14 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eA
	1.50 J/cmÂ² @Temperature -30.0 Â°C	7.14 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179-1eA
	2.00 J/cmÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eA
	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	130 Âµm/m-Â°C	72.2 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)	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
Shrinkage	0.070 % @Temperature 120 Â°C, Time 14400 sec	0.070 % @Temperature 248 Â°F, Time 4.00 hour	Molding Post-shrinkage; ISO 294-4
	0.15 % @Temperature 120 Â°C, Time 14400 sec	0.15 % @Temperature 248 Â°F, Time 4.00 hour	Molding Post-shrinkage; ISO 294-4

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

Processing Properties	Metric	English	Comments
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,14-080,GF30	

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