

Lanxess Durethan® ECO BV 30 H2 900500 Nylon 6, 30% Glass Fiber

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

Material Notes:

PA 6, 30% glass fibers, injection molding, heat-ageing stabilized, contains 30% pre-consumer recycled material Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-ECO-BV-30-H2-900500-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Water Absorption at Saturation	7.0 %	7.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.00050 - 0.0030 cm/cm	0.00050 - 0.0030 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 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
Tensile Modulus	9.40 GPa	1360 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	235 MPa	34100 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.60 %	@Strain 3.60 %	
Flexural Yield Strength	230 MPa	33400 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	8.90 GPa	1290 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
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	50.0 kJ/mÂ² @Temperature -30.0 °C	23.8 ft-lb/inÂ² @Temperature -22.0 °F	d.a.m.; ISO 180-1U
	55.0 kJ/mÂ² @Temperature 23.0 °C	26.2 ft-lb/inÂ² @Temperature 73.4 °F	d.a.m.; ISO 180-1U
Charpy Impact Unnotched	5.50 J/cmÂ² @Temperature -30.0 °C	26.2 ft-lb/inÂ² @Temperature -22.0 °F	d.a.m.; ISO 179-1eU
	6.50 J/cmÂ² @Temperature 23.0 °C	30.9 ft-lb/inÂ² @Temperature 73.4 °F	d.a.m.; ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature 23.0 °C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 °F	d.a.m.; ISO 179-1eA
	<= 1.00 J/cmÂ² @Temperature -30.0 °C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 °F	d.a.m.; ISO 179-1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	197 Â°C	387 Â°F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 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 - 120 Â°C	176 - 248 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

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
ISO Shortname	ISO 1874-PA 6, GHR, 14-090, GF30		

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