

Lanxess Durethan® ECO PA GF30 909040 Nylon 6, 30% Glass Fiber

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

Material Notes:

PA 6 (mainly), 30% glass fibers, injection molding, contains at least 80% pre-consumer recycled material, properties may change considerably from lot to lot. Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-ECO-PA-GF30-909040-Nylon-6-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Water Absorption at Saturation	7.0 %	7.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.5 %	2.5 %	d.a.m.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	8.50 GPa	1230 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	210 MPa @Strain 3.00 %	30500 psi @Strain 3.00 %	d.a.m., 2 mm/min; ISO 178-A
Flexural Modulus	7.50 GPa	1090 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ² @Temperature 23.0 Â°C	19.0 ft-lb/in ² @Temperature 73.4 Â°F	d.a.m.; ISO 180-1U
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	d.a.m.; ISO 179-1eU

Thermal Properties	Metric	English	Comments
Melting Point	>= 210 Â°C	>= 410 Â°F	10Â°C/min; ISO 11357-1, -3

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	

Processing Properties	Metric 	English	Comments
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6/XX, GR, 14-080, GF30	

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