

Lanxess Durethan® BCF 30 X H2.0 901510 Nylon 6, 30% Glass + Carbon Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

Material Notes:

PA 6, injection molding grade, 30% reinforced (glass fibers + carbon fibers), conductive, intrinsic color black, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BCF-30-X-H20-901510-Nylon-6-30-Glass-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0021 cm/cm	0.0021 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0059 cm/cm	0.0059 in/in	ISO 294-4, 2577
Melt Flow	20 g/10 min @Load 5.00 kg, Temperature 260 °C	20 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Conditioned; ISO 527-1/-2
	180 MPa	26100 psi	ISO 527-1/-2
Elongation at Break	2.4 %	2.4 %	ISO 527-1/-2
	3.5 %	3.5 %	Nominal; ISO 527-1/-2
Tensile Modulus	6.30 GPa	914 ksi	Conditioned; ISO 527-1/-2
	12.5 GPa	1810 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	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 23.0 °C	38.1 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Puncture Energy Mechanical Properties	2.40 J Metric	1.77 ft-lb English	ISO 6603-2 Comments
	1.70 J	1.25 ft-lb	ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.70 J	1.25 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

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	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	218 Â°C	424 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	219 Â°C	426 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	140 Â°C	284 Â°F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	150 V	150 V	IEC 60112

Descriptive Properties	Value	Comments
Features	Increased electrical conductivity	
Form	Pellets	
ISO Shortname	ISO 1874-PA6, MHR, 14-120, (GF+CF)30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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