

Lanxess Durethan® BKV 215 W1 902176 Copolyamide, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 15% glass fibers, elastomer-modified, weather-stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-215-W1-902176-Copolyamide-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	ISO 527-1/-2
Elongation at Break	4.9 %	4.9 %	ISO 527-1/-2
	20 %	20 %	Conditioned; ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	Conditioned; ISO 527-1/-2
	4.40 GPa	638 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ² @Temperature 23.0 °C	30.9 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
	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	Conditioned; ISO 179/1eU
Impact	1760	1760	Puncture maximum force (N); ISO 6603-2
	785	785	Puncture maximum force (N); ISO

Mechanical Properties	@Temperature -30.0 Metric	@Temperature -22.0 English	6603-2 Comments
Puncture Energy	7.30 J	5.38 ft-lb	ISO 6603-2
	3.10 J	2.29 ft-lb	ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	3.10 J	2.29 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	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	160 Âµm/m-Â°C	88.9 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	214 Â°C	417 Â°F	10Â°C/min; 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)	180 Â°C	356 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 Â°C	140 Â°F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Features	U.V. stabilized or stable to weather	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6/66-HI,MLR,-050,GF15	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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