

Lanxess Durethan® DP BKV 240 H2.0 901510 Copolyamide, 40% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

CoPA, injection molding grade, 40% glass fibers reinforced, elastomer-modified, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BKV-240-H20-901510-Copolyamide-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0074 cm/cm	0.0074 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	Conditioned; ISO 527-1/-2
	150 MPa	21800 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
	7.5 %	7.5 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.70 GPa	827 ksi	Conditioned; ISO 527-1/-2
	10.5 GPa	1520 ksi	ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	1.50 J/cm ² @Temperature -30.0 Â°C	7.14 ft-lb/in ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	2.50 J/cm ² @Temperature 23.0 Â°C	11.9 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1eA
	3.50 J/cm ² @Temperature 23.0 Â°C	16.7 ft-lb/in ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	1247	1247	Puncture maximum force (N); ISO 6603-2
	1065 @Temperature -30.0 Â°C	1065 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	8.00 J	5.90 ft-lb	ISO 6603-2
	4.70 J @Temperature -30.0 Â°C	3.47 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	4.70 J @Temperature -30.0 Â°C	3.47 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2

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	140 Âµm/m-Â°C	77.8 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	210 Â°C	410 Â°F	10Â°C/min; 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)	195 Â°C	383 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	125 Â°C	257 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	High impact or high impact modified	

Descriptive Properties	Value	Comments
ISO Shortname	ISO1874-PA6/66-HI, MHR, -110, GF40	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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