

Lanxess Durethan® DP BKV 35 XF 901510 Nylon 6, 35% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

PA 6, 35% glass fibers, injection molding, improved flowability, improved surface finish Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BKV-35-XF-901510-Nylon-6-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.358 g/cc	1.358 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0022 cm/cm	0.0022 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0014 cm/cm	0.0014 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0058 cm/cm	0.0058 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	104 MPa	15100 psi	cond.; ISO 527-1, -2; 5 mm/min
	165 MPa	23900 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.9 %	2.9 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	5.1 %	5.1 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	6.30 GPa	914 ksi	cond.; ISO 527-1, -2; 1 mm/min
	9.50 GPa	1380 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	160 MPa	23200 psi	cond., 2 mm/min; ISO 178-A
	@Strain 5.10 %	@Strain 5.10 %	
	250 MPa	36300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.70 %	@Strain 3.70 %	
Flexural Yield Strength	140 MPa	20300 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
	250 MPa	36300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	5.70 GPa	827 ksi	cond., 2 mm/min; ISO 178-A

Mechanical Properties	Metric ¹	English ¹	Comments ¹ in/min; ISO 178-A
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	d.a.m.; ISO 180-1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	19.0 kJ/m ²	9.04 ft-lb/in ²	cond.; ISO 180-1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	cond.; ISO 180-1U
	75.0 kJ/m ²	35.7 ft-lb/in ²	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	d.a.m.; ISO 179-1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
CTE, linear, Transverse to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	220 Å°C	428 Å°F	10Å°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	209 Å°C	408 Å°F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 Å°C	482 - 554 Å°F	
	270 Å°C	518 Å°F	
Mold Temperature	80.0 Å°C	176 Å°F	for test specimens; ISO 294
	80.0 - 120 Å°C	176 - 248 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
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
Flammability Test	passed	ISO 3795; US-FMVSS302
ISO Shortname	ISO 1874 PA 6, GR, 10-090, GF35	

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