

Lanxess Durethan® BKV 35 CX H2.0 900876 Nylon 6, Glass Fiber Reinforced

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

Material Notes:

PA 6, 35% glass fibers, injection molding, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-35-CX-H20-900876-Nylon-6-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0015 cm/cm	0.0015 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 260°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	cond.; ISO 527-1, -2; 5 mm/min
	180 MPa	26100 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	3.0 %	3.0 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	5.5 %	5.5 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	6.50 GPa	943 ksi	cond.; ISO 527-1, -2; 1 mm/min
	10.5 GPa	1520 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	280 MPa	40600 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 4.00 %	@Strain 4.00 %	
Flexural Yield Strength	270 MPa	39200 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	10.0 GPa	1450 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	d.a.m.; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric ¹ /m ²	English ^{lb} /in ²	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	d.a.m., ISO 180-1U

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 °C	482 - 554 °F	
	270 °C	518 °F	for test specimens; ISO 294
Mold Temperature	80.0 °C	176 °F	for test specimens; ISO 294
	80.0 - 120 °C	176 - 248 °F	
Drying Temperature	80.0 °C	176 °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
ISO Shortname	ISO 1874-PA 6, GHR, 10-100, GF35	

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