

Lanxess Durethan® DP BKV 60 EF 000000 Nylon6, 60% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

PA 6, 60% glass fibers, injection molding, improved flowability Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BKV-60-EF-000000-Nylon6-60-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.00020 cm/cm	0.00020 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.00060 cm/cm	0.00060 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	cond.; ISO 527-1, -2; 5 mm/min
	230 MPa	33400 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	2.5 %	2.5 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	3.5 %	3.5 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	12.5 GPa	1810 ksi	cond.; ISO 527-1, -2; 1 mm/min
	20.0 GPa	2900 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	390 MPa	56600 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.00 %	@Strain 3.00 %	
Flexural Modulus	20.2 GPa	2930 ksi	d.a.m., 2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	18.0 kJ/mÅ²	8.57 ft-lb/inÅ²	d.a.m.; ISO 180-1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	18.0 kJ/mÅ²	8.57 ft-lb/inÅ²	cond.; ISO 180-1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Unnotched (ISO)	90.0 kJ/mÅ²	42.8 ft-lb/inÅ²	d.a.m.; ISO 180-1U
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	cond.; ISO 180-1U
	90.0 kJ/mÂ²	42.8 ft-lb/inÂ²	d.a.m.; ISO 180-1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	90.0 kJ/mÂ²	42.8 ft-lb/inÂ²	cond.; ISO 180-1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact Unnotched	9.50 J/cmÂ²	45.2 ft-lb/inÂ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	9.50 J/cmÂ²	45.2 ft-lb/inÂ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	d.a.m.; ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Puncture Energy	3.70 J	2.73 ft-lb	ISO 6603-2
	@Load <=133 kg, Temperature -30.0 Â°C	@Load <=292 lb, Temperature -22.0 Â°F	
	4.30 J	3.17 ft-lb	ISO 6603-2
	@Load <=140 kg, Temperature 23.0 Â°C	@Load <=308 lb, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 Âµm/m-Â°C	5.56 Âµin/in-Â°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Melting Point	221 Â°C	430 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	222 Â°C	432 Â°F	ISO 75-1, -2

Thermal Properties	Metric	English	Comments
Compression Temperature at 1.8 MPa (264 psi)	213 Â°C	416 Â°F	ISO 15-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2 - 6 hour	2 - 6 hour	
Moisture Content	0.060 - 0.20 %	0.060 - 0.20 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 6, GHR, 10-190, GF60	

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