

Lanxess Durethan® BKV 215 H2.0 DUS008 901510 Nylon 6, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Filled , Impact Grade

Material Notes:

PA 6, 15% glass fibers, injection molding, impact modified, heat-aging stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BKV-215-H20-DUS008-901510-Nylon-6-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.169 g/cc	1.169 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.00090 cm/cm	0.00090 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0071 cm/cm	0.0071 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0015 cm/cm	0.0015 in/in	Post-shrinkage, 60x60x2; 120Å°C; 4 hour; ISO 294-4
	0.0075 cm/cm	0.0075 in/in	60x60x2; 280Å°C / MT 80Å°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	cond.; ISO 527-1, -2; 5 mm/min
	80.0 MPa	11600 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	5.0 %	5.0 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	15 %	15 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	2.00 GPa	290 ksi	cond.; ISO 527-1, -2; 1 mm/min
	4.50 GPa	653 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	75.0 MPa	10900 psi	cond., 2 mm/min; ISO 178-A
	@Strain 8.00 %	@Strain 8.00 %	
Flexural Yield Strength	135 MPa	19600 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 5.50 %	@Strain 5.50 %	
Flexural Modulus	55.0 MPa	7980 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	120 MPa	17400 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	2.10 GPa	305 ksi	cond., 2 mm/min; ISO 178-A

Mechanical Properties	Metric ^{1)a}	English	Comments ^{in/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 -30.0 °C	@Temperature -22.0 °F	
	10.0 kJ/m ²	4.76 ft-lb/in ²	cond.; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	20.0 kJ/m ²	9.52 ft-lb/in ²	d.a.m.; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	35.0 kJ/m ²	16.7 ft-lb/in ²	cond.; 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 23.0 °C	@Temperature 73.4 °F	
	60.0 kJ/m ²	28.6 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	65.0 kJ/m ²	30.9 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	90.0 kJ/m ²	42.8 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	cond.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	cond.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	d.a.m.; ISO 179-1eA
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	cond.; ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	cond.; ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Melting Point	219 Â°C	426 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)	170 Â°C	338 Â°F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 Â°C	500 - 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 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 Â°C	176 Â°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-HI, GHR, 14-040, GF15	

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