

Lanxess Durethan® DP 2-2240/15 H2.0 901510 Nylon 66, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

PA 66, 15% glass fibers, blow molding, heat-aging stabilized, hydrolysis stabilized Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-2-224015-H20-901510-Nylon-66-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.236 g/cc	1.236 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.0012 cm/cm	0.0012 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.015 cm/cm	0.015 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.00 cm/cm	0.00 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0048 cm/cm	0.0048 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	cond.; ISO 527-1, -2; 5 mm/min
	130 MPa	18900 psi	d.a.m.; ISO 527-1, -2; 5 mm/min
Elongation at Break	4.3 %	4.3 %	d.a.m.; ISO 527-1, -2; 5 mm/min
	16 %	16 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	3.40 GPa	493 ksi	cond.; ISO 527-1, -2; 1 mm/min
	6.30 GPa	914 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	100 MPa	14500 psi	cond., 2 mm/min; ISO 178-A
	@Strain 7.30 %	@Strain 7.30 %	
	205 MPa	29700 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 6.00 %	@Strain 6.00 %	
Flexural Yield Strength	75.0 MPa	10900 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
	175 MPa	25400 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	2.60 GPa	377 ksi	cond., 2 mm/min; ISO 178-A

Mechanical Properties	Metric ^{Pa}	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
	10.0 kJ/m ²	4.76 ft-lb/in ²	cond.; ISO 180-1A
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	55.0 kJ/m ²	26.2 ft-lb/in ²	d.a.m.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	75.0 kJ/m ²	35.7 ft-lb/in ²	cond.; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	d.a.m.; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	d.a.m.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	cond.; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	cond.; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Åµm/m-Å°C	22.2 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	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-1, -2

Thermal Properties	Metric @Temperature 23.0 - 35.0 Â°C	English @Temperature 73.4 - 139 Â°F	Comments
Melting Point	262 Â°C	504 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	245 Â°C	473 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	225 Â°C	437 Â°F	ISO 75-1, -2
Vicat Softening Point	255 Â°C @Load 5.10 kg	491 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Glow Wire Test	650 Â°C @Diameter 2.00 mm	1200 Â°F @Diameter 0.0787 in	GWFI; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	d.a.m.; IEC 60093
Comparative Tracking Index	375 V	375 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 Â°C	536 - 572 Â°F	
	290 Â°C	554 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	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 66, BHRW, 14-060, GF15	

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