

Lanxess Durethan® AM 40 X H2.0 901510 Nylon 66, Glass Fiber/Mineral Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

PA 66, 40% glass fibers/mineral, injection molding, heat-aging stabilized, low tendency to warp
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AM-40-X-H20-901510-Nylon-66-Glass-FiberMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0040 cm/cm	0.0040 in/in	60x60x2; 290Â°C / MT 80Â°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120Â°C; 4 hour; ISO 294-4
	0.0097 cm/cm	0.0097 in/in	60x60x2; 290Â°C / MT 80Â°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	cond.; ISO 527-1, -2; 5 mm/min
	170 MPa	24700 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
	6.5 %	6.5 %	cond.; ISO 527-1, -2; 5 mm/min
Tensile Modulus	6.50 GPa	943 ksi	cond.; ISO 527-1, -2; 1 mm/min
	12.2 GPa	1770 ksi	d.a.m.; ISO 527-1, -2; 1 mm/min
Flexural Strength	140 MPa	20300 psi	cond., 2 mm/min; ISO 178-A
	@Strain 6.00 %	@Strain 6.00 %	
	250 MPa	36300 psi	d.a.m., 2 mm/min; ISO 178-A
	@Strain 3.00 %	@Strain 3.00 %	
Flexural Yield Strength	125 MPa	18100 psi	cond., 2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	6.10 GPa	885 ksi	cond., 2 mm/min; ISO 178-A
	11.0 GPa	1600 ksi	d.a.m., 2 mm/min; ISO 178-A

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	$\leq 13.0 \text{ kJ/m}^2$ @Temperature 23.0 °C	@Temperature 73.4 °F	d.a.m.; ISO 180-1U
	$\leq 10.0 \text{ kJ/m}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	d.a.m.; ISO 180-1U
	13.0 kJ/m^2 @Temperature 23.0 °C	6.19 ft-lb/in^2 @Temperature 73.4 °F	cond.; ISO 180-1U
Izod Impact, Unnotched (ISO)	50.0 kJ/m^2 @Temperature -30.0 °C	23.8 ft-lb/in^2 @Temperature -22.0 °F	d.a.m.; ISO 180-1U
	50.0 kJ/m^2 @Temperature -30.0 °C	23.8 ft-lb/in^2 @Temperature -22.0 °F	cond.; ISO 180-1U
	55.0 kJ/m^2 @Temperature 23.0 °C	26.2 ft-lb/in^2 @Temperature 73.4 °F	d.a.m.; ISO 180-1U
	55.0 kJ/m^2 @Temperature 23.0 °C	26.2 ft-lb/in^2 @Temperature 73.4 °F	cond.; ISO 180-1U
Charpy Impact Unnotched	5.50 J/cm^2 @Temperature -30.0 °C	26.2 ft-lb/in^2 @Temperature -22.0 °F	d.a.m.; ISO 179-1eU
	6.00 J/cm^2 @Temperature 23.0 °C	28.6 ft-lb/in^2 @Temperature 73.4 °F	d.a.m.; ISO 179-1eU
Charpy Impact, Notched	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	d.a.m.; ISO 179-1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	d.a.m.; ISO 179-1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	$\geq 250 \text{ °C}$	$\geq 482 \text{ °F}$	ISO 75-1, -2

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

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, GHR, 14-120, (GF+MD)40	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China