

Lanxess Durethan® AKV 30 G HR DUS023 900116 Nylon 66, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

PA 66, 30% glass fiber, injection molding, improved flowability, hydrolysis stabilized, improved surface finish, GIT/WIT Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-G-HR-DUS023-900116-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.343 g/cc	0.04852 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0064 cm/cm	0.0064 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0082 cm/cm	0.0082 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned, 5 mm/min; ISO 527-1,-2
	135 MPa	19600 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527-1,-2
	6.5 %	6.5 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	5.60 GPa	812 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	8.50 GPa	1230 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	150 MPa	21800 psi	conditioned, 2 mm/min; ISO 178-A
	215 MPa	31200 psi	2 mm/min; ISO 178-A
Flexural Modulus	5.60 GPa	812 ksi	conditioned, 2 mm/min; ISO 178-A
	8.00 GPa	1160 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	conditioned; ISO 180-1A
	<= 10.0 kJ/m ² @Temperature -30.0	<= 4.76 ft-lb/in ² @Temperature -22.0	ISO 180-1A

Mechanical Properties	°C Metric	°F English	Comments
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	conditioned; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	60.0 kJ/m ²	28.6 ft-lb/in ²	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 kJ/m ²	28.6 ft-lb/in ²	conditioned; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm ²	30.9 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	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	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	conditioned; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	conditioned; ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.00 J	1.48 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.50 J		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C @Temperature 23.0 - 55.0 Å°C	16.7 Åµin/in-Å°F @Temperature 73.4 - 131 Å°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	90.0 Åµm/m-Å°C @Temperature 23.0 - 55.0 Å°C	50.0 Åµin/in-Å°F @Temperature 73.4 - 131 Å°F	ISO 11359-1,-2
Melting Point	259 Å°C	498 Å°F	10 Å°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	245 Å°C	473 Å°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	200 Å°C	392 Å°F	ISO 75-1,-2
Deflection Temperature at 8.0 MPa	75.0 Å°C	167 Å°F	ISO 75-1,-2
Shrinkage	0.0400 % @Temperature 120 Å°C, Time 14400 sec	0.0400 % @Temperature 248 Å°F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 294-4
	0.0500 % @Temperature 120 Å°C, Time 14400 sec	0.0500 % @Temperature 248 Å°F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 294-4

Processing Properties	Metric	English	Comments
Melt Temperature	290 Å°C	554 Å°F	Injection molding; ISO 294
Mold Temperature	80.0 Å°C	176 Å°F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour @Temperature 80.0 Å°C	2.00 - 6.00 hour @Temperature 176 Å°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer test

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