

Lanxess Durethan® AKV 35 LT H3.0 000000 Nylon 66, 35% Glass Fiber

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

Material Notes:

PA 66, 35% glass fiber Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-35-LT-H30-000000-Nylon-66-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa	17800 psi	conditioned, 5 mm/min; ISO 527-1,-2
	195 MPa	28300 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1,-2
	5.2 %	5.2 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	8.10 GPa	1170 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	11.5 GPa	1670 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	214 MPa	31000 psi	conditioned, 2 mm/min; ISO 178-A
	295 MPa	42800 psi	2 mm/min; ISO 178-A
Flexural Modulus	7.80 GPa	1130 ksi	conditioned, 2 mm/min; ISO 178-A
	10.5 GPa	1520 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.0 kJ/m ²	7.14 ft-lb/in ²	conditioned; 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	ISO 180-1U

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
	70.0 kJ/m ²	33.3 ft-lb/in ²	conditioned; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 μm/m-°C	11.1 μin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	70.0 μm/m-°C	38.9 μin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	260 °C	500 °F	10 °C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	>= 250 °C	>= 482 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75-1,-2
Shrinkage	0.100 %	0.100 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	
	0.100 %	0.100 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294

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