

Lanxess Durethan® AKV 15 FN 00 000000 Nylon 66, 12% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

PA 66, 12% glass fiber, injection molding, halogen free flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-15-FN-00-000000-Nylon-66-12-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.275 g/cc	0.04606 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Melt Flow	31.8 g/10 min @Load 2.16 kg, Temperature 270 °C	31.8 g/10 min @Load 4.76 lb, Temperature 518 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	conditioned, 5 mm/min; ISO 527-1,-2
	90.0 MPa	13100 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.3 %	3.3 %	5 mm/min; ISO 527-1,-2
	5.5 %	5.5 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	3.60 GPa	522 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	6.50 GPa	943 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	90.0 MPa	13100 psi	conditioned, 2 mm/min; ISO 178-A
	150 MPa	21800 psi	2 mm/min; ISO 178-A
Flexural Modulus	3.30 GPa	479 ksi	conditioned, 2 mm/min; ISO 178-A
	6.40 GPa	928 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

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	conditioned; ISO 180-1A
Izod Impact, Unnotched (ISO)	35.0 kJ/mÅ² @Temperature 23.0 Å°C	16.7 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 180-1U
	40.0 kJ/mÅ² @Temperature 23.0 Å°C	19.0 ft-lb/inÅ² @Temperature 73.4 Å°F	conditioned; ISO 180-1U
Charpy Impact Unnotched	4.00 J/cmÅ² @Temperature 23.0 Å°C	19.0 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 179-1eU
	4.50 J/cmÅ² @Temperature 23.0 Å°C	21.4 ft-lb/inÅ² @Temperature 73.4 Å°F	conditioned; ISO 179-1eU

Thermal Properties	Metric	English	Comments
Melting Point	262 Å°C	504 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)	205 Å°C	401 Å°F	ISO 75-1,-2
Vicat Softening Point	225 Å°C	437 Å°F	50 N; 120 Å°C/h; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 Å°C	1760 Å°F	IEC 60695-2-12
Glow Wire Test	@Thickness 0.400 mm	@Thickness 0.0157 in	
	960 Å°C	1760 Å°F	IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Thermal Properties	960 Â°C Metric	1760 Â°F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	IEC 60695-2-12
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
Shrinkage	0.100 %	0.100 %	post-shrinkage, 60x60x2; ISO 294-4
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	
	0.100 %	0.100 %	post-shrinkage, transverse, 60x60x2; ISO 294-4
	@Temperature 120 Â°C, Time 14400 sec	@Temperature 248 Â°F, Time 4.00 hour	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	270 Â°C	518 Â°F	Injection molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Moisture Content	0.030 - 0.070 %	0.030 - 0.070 %	residual; Karl Fischer test

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