

Lanxess Durethan® AKV 50 H3.0 000000 Nylon 66, 50% Glass Fibers

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

PA 66, 50% glass fibers, injection molding, heat-ageing stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-50-H30-000000-Nylon-66-50-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	Mold Temp 80°C; Melt Temp 300°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 2.00 mm	0.010 in/in @Thickness 0.0787 in	Mold Temp 80°C; Melt Temp 300°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	220 MPa	31900 psi	ISO 527-1,-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1,-2
Tensile Modulus	15.2 GPa	2200 ksi	ISO 527-1,-2
Flexural Strength	360 MPa @Strain 3.00 %	52200 psi @Strain 3.00 %	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	90.0 kJ/m ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U

Mechanical Properties	Metric	English	Comments
Charpy Impact, Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179-1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	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)	250 °C	482 °F	ISO 75-1,-2
Shrinkage	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	
	0.10 %	0.10 %	Molding Post-shrinkage; ISO 294-4
	@Temperature 120 °C, Time 14400 sec	@Temperature 248 °F, Time 4.00 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	4.4	4.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0	5.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	38.0 kV/mm Metric	965 kV/in English	Comments
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.023	0.023	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.025	0.025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	500 V	500 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	290 Â°C	554 Â°F	Processing conditions for test specimens; ISO 294
	280 - 300 Â°C	536 - 572 Â°F	Recommended
Mold Temperature	80.0 Â°C	176 Â°F	Processing conditions for test specimens; ISO 294
	80.0 - 120 Â°C	176 - 248 Â°F	Recommended
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; Acc. To Karl Fischer

Descriptive Properties	Value	Comments
ISO Shortname	ISO 1874-PA 66,GHR,14-160,GF50	

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