

Lanxess Durethan® AKV 50 H2.0 901510 Nylon 66, 50% Glass Fiber

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

Material Notes:

PA 66, injection molding grade, 50% glass fibers, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-50-H20-901510-Nylon-66-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Water Absorption	4.0 %	4.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	146 cm ³ /g	146 cm ³ /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	152 MPa	22000 psi	Conditioned; ISO 527-1/-2
	230 MPa	33400 psi	ISO 527-1/-2
Elongation at Break	2.6 %	2.6 %	ISO 527-1/-2
	4.3 %	4.3 %	Conditioned; ISO 527-1/-2
Tensile Modulus	10.2 GPa	1480 ksi	Conditioned; ISO 527-1/-2
	15.3 GPa	2220 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	

Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	Conditioned; ISO 179/1eA Comments
	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.30 J/cm ²	10.9 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	1162	1162	Puncture maximum force (N); ISO 6603-2
	1202	1202	Puncture maximum force, Conditioned (N); ISO 6603-2
	1050	1050	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	3.60 J	2.66 ft-lb	ISO 6603-2
	5.00 J	3.69 ft-lb	Conditioned; ISO 6603-2
	2.80 J	2.07 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.80 J	2.07 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-1/-2
Melting Point	261 Å°C	502 Å°F	10Å°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	250 Å°C	482 Å°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	250 Å°C	482 Å°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	205 Å°C	401 Å°F	ISO 75-1/-2
Vicat Softening Point	230 Å°C	446 Å°F	50Å°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	IEC 60085 11-10
Oxygen Index	27 %	27 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.5	4.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	5.0	5.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	14	14	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.085	0.085	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.32	0.32	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	550 V	550 V	IEC 60112

Descriptive Properties	Value	Comments
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Additives Descriptive Properties	Release agent Value	Comments
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MHR,14-160,GF50	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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