

Lanxess Durethan® AKV 35 H2.0 901510 Nylon 66, 35% Glass Fiber

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

Material Notes:

PA 66, injection molding grade, 35% glass fibers, good heat-ageing resistance
Application Examples: gearbox oil sumps, oil modules

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-35-H20-901510-Nylon-66-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.7 %	1.7 %	23°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
Linear Mold Shrinkage, Flow	0.0037 cm/cm	0.0037 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0091 cm/cm	0.0091 in/in	ISO 294-4, 2577
Melt Flow	33 g/10 min @Load 5.00 kg, Temperature 290 °C	33 g/10 min @Load 11.0 lb, Temperature 554 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	124 MPa	18000 psi	Conditioned; ISO 527-1/-2
	200 MPa	29000 psi	ISO 527-1/-2
Elongation at Break	3.1 %	3.1 %	ISO 527-1/-2
	6.4 %	6.4 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.80 GPa	986 ksi	Conditioned; ISO 527-1/-2
	10.6 GPa	1540 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	7.50 J/cm ² @Temperature -30.0 °C	35.7 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	Comments
	9.00 J/cm ²	42.8 ft-lb/in ²	Conditioned; 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 -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	
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.70 J/cm ²	8.09 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	887.4	887.4	Puncture maximum force (N); ISO 6603-2
	1259	1259	Puncture maximum force, Conditioned (N); ISO 6603-2
	824.1	824.1	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	3.20 J	2.36 ft-lb	ISO 6603-2
	5.90 J	4.35 ft-lb	Conditioned; ISO 6603-2
	2.60 J	1.92 ft-lb	ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.60 J	1.92 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	7000 MPa	1.02e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	5800 MPa	841000 psi	ISO 899-1
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ISO 11359-1/-2

CTE linear Transverse to Flow Thermal Properties	90.0 Åum/m-Å°C Metric	50.0 Åuin/in-Å°F English	ISO 11359-1/-2 Comments
Melting Point	263 Å°C	505 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	185 Å°C	365 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	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	25 %	25 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
	4.0	4.0	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	10	10	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	Conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.011	0.011	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.065	0.065	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.21	0.21	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	425 V	425 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
ISO Shortname	ISO 1874-PA 66,MHR,14-110,GF35	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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