

## Lanxess Durethan® AKV 30 H2.0 901510 Nylon 66, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

PA 66, injection molding-grade, 30% glass fibers, good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-AKV-30-H20-901510-Nylon-66-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-H20-901510-Nylon-66-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.5 %	5.5 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	146 cm <sup>3</sup> /g	146 cm <sup>3</sup> /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	Conditioned; ISO 527-1/-2
	170 MPa	24700 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	4.4 %	4.4 %	Nominal; ISO 527-1/-2
	6.0 %	6.0 %	Conditioned; ISO 527-1/-2
	6.7 %	6.7 %	Nominal, Conditioned; ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	Conditioned; ISO 527-1/-2
	10.0 GPa	1450 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	ISO 179/1eU
@Temperature 23.0 °C	@Temperature 73.4 °F		
8.50 J/cm <sup>2</sup>	40.4 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eU	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	Comments
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
Impact	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 179/1eA
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
	835	835	Puncture maximum force (N); ISO 6603-2
Impact	1161	1161	Puncture maximum force, Conditioned (N); ISO 6603-2
	768	768	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.80 J	2.07 ft-lb	ISO 6603-2
	5.40 J	3.98 ft-lb	Conditioned; ISO 6603-2
	2.30 J	1.70 ft-lb	ISO 6603-2
Puncture Energy	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 6603-2
	2.30 J	1.70 ft-lb	Conditioned; ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 6603-2

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	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-1/-2
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

Thermal Properties	Metric	English	Comments
Vicat Softening Point	230 Â°C	446 Â°F	50Â°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	23 %	23 %	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	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	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	
Dielectric Strength	12	12	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	30.0 kV/mm	762 kV/in	Conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	IEC 60243-1
	0.012	0.012	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.019	0.019	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.080	0.080	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.27 Metric	0.27 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Comparative Tracking Index	475 V	475 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
ISO Shortname	ISO 1874-PA 66,MHR,14-100,GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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