

## Lanxess Durethan® AKV 30 HR H2.0 900116 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, hydrolysis stabilized, good heat-ageing resistance

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-AKV-30-HR-H20-900116-Nylon-66-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-HR-H20-900116-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
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 280 °C	14 g/10 min @Load 11.0 lb, Temperature 536 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Conditioned; ISO 527-1/-2
	180 MPa	26100 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.10 GPa	885 ksi	Conditioned; ISO 527-1/-2
	9.50 GPa	1380 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm <sup>2</sup> @Temperature -30.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	7.50 J/cm <sup>2</sup> @Temperature -30.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	8.50 J/cm <sup>2</sup> @Temperature 23.0 °C	40.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	9.00 J/cm <sup>2</sup> @Temperature 23.0 °C	42.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eU

Mechanical Properties Charpy Impact, Notched	$\leq 1.00 \text{ J/cm}^2$ Metric	$\leq 4.76 \text{ ft-lb/in}^2$ English	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	Conditioned; ISO 179/1eA
	1.20 J/cm <sup>2</sup> @Temperature 23.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA
	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 $\mu\text{m/m}\cdot\text{°C}$	16.7 $\mu\text{in/in}\cdot\text{°F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 $\mu\text{m/m}\cdot\text{°C}$	50.0 $\mu\text{in/in}\cdot\text{°F}$	ISO 11359-1/-2
Melting Point	263 °C	505 °F	10°C/min; 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)	245 °C	473 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	125 °C	257 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10
Oxygen Index	25 %	25 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 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	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
	4.0	4.0	

Electrical Properties	Metric	English	IEC 60250 Comments
	4.5	4.5	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	12	12	
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
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	0.0080	0.0080	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.016	0.016	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.090	0.090	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.30	0.30	
	@Frequency 100 Hz	@Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	450 V	450 V	IEC 60112

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MHWR,18-100,GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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