

Lanxess Durethan® AKV 30 HR 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, hydrolysis stabilized, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-HR-H20-901510-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	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	153 cm ³ /g	153 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
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
	9.70 GPa	1410 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ² @Temperature -30.0 [°] C	35.7 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
	8.50 J/cm ² @Temperature 23.0 [°] C	40.4 ft-lb/in ² @Temperature 73.4 [°] F	ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179/1eA
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179/1eA
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	896	896	Puncture maximum force (N); ISO 6603-2
	1073	1073	Puncture maximum force, Conditioned (N); ISO 6603-2
	776	776	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Puncture Energy	3.10 J	2.29 ft-lb	ISO 6603-2
	4.70 J	3.47 ft-lb	Conditioned; ISO 6603-2
	1.90 J	1.40 ft-lb	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 6603-2
	1.90 J	1.40 ft-lb	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	263 Â°C	505 Â°F	10Â°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	250 Â°C	482 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 8.0 MPa	123 ÅC	English	ISO 18-1/-2
Vicat Softening Point	230 ÅC	446 ÅF	50ÅC/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	26 %	26 %	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	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.5	4.5	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	12	12	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	0.0080	0.0080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.016	0.016	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.090	0.090	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.30 Metric	0.30 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Comparative Tracking Index	450 V	450 V	IEC 60112

Descriptive Properties	Value	Comments
Features	Heat stabilized or stable to heat	
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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