

Lanxess Durethan® AKV 30 G H2.0 SR1 900051 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, better surface than AKV 30 H2.0, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-G-H20-SR1-900051-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	5.0 %	5.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.9 %	1.9 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	138 cm ³ /g	138 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Melt Flow	20 g/10 min @Load 5.00 kg, Temperature 280 ^o C	20 g/10 min @Load 11.0 lb, Temperature 536 ^o 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	3.0 %	3.0 %	ISO 527-1/-2
	6.0 %	6.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.60 GPa	957 ksi	Conditioned; ISO 527-1/-2
	9.60 GPa	1390 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 ^o C	28.6 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	6.00 J/cm ² @Temperature -30.0 ^o C	28.6 ft-lb/in ² @Temperature -22.0 ^o F	Conditioned; ISO 179/1eU
	7.00 J/cm ² @Temperature 23.0 ^o C	33.3 ft-lb/in ² @Temperature 73.4 ^o F	ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	Conditioned; ISO 179/1eU Comments
Charpy Impact, Notched	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	<= 1.00 J/cm ²	<= 4.76 ft-lb/in ²	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	746	746	Puncture maximum force (N); ISO 6603-2
	923	923	Puncture maximum force, Conditioned (N); ISO 6603-2
	679	679	Puncture maximum force (N); ISO 6603-2
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	2.20 J	1.62 ft-lb	ISO 6603-2
	3.60 J	2.66 ft-lb	Conditioned; ISO 6603-2
	1.90 J	1.40 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 6603-2
	1.90 J	1.40 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Conditioned; ISO 6603-2

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	260 Å°C	500 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)	220 Å°C	428 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	
Oxygen Index	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+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	
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Constant	8.0	8.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	Conditioned; IEC 60243-1
	31.0 kV/mm	787 kV/in	IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.017	0.017	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.060	0.060	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.18 Metric	0.18 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Comparative Tracking Index	375 V	375 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
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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