

Lanxess Durethan® DP AKV 30 FN00 000000 Nylon 66, 30% Glass Fiber

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

Material Notes:

PA 66, injection molding 30% glass fibers, UL 94 V-0 at 0.4 mm, max. temperature in glow wire test: 960 °C at 0,75 mm, free from halogen and red phosphorous

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-AKV-30-FN00-000000-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.417 g/cc	0.05119 lb/in ³	ISO 1183
Viscosity Test	135 cm ³ /g	135 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	Conditioned; ISO 527-1/-2
	135 MPa	19600 psi	ISO 527-1/-2
Elongation at Break	2.8 %	2.8 %	ISO 527-1/-2
	5.4 %	5.4 %	Conditioned; ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	Conditioned; ISO 527-1/-2
	10.5 GPa	1520 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °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)	224 °C	435 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	5.00e+12 ohm-cm Metric	5.00e+12 ohm-cm English	Conditioned; IEC 60093 Comments
	5.00e+15 ohm-cm	5.00e+15 ohm-cm	IEC 60093
Surface Resistance	4.00e+14 ohm	4.00e+14 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.1	4.1	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.7	8.7	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	34.8 kV/mm	884 kV/in	Conditioned; IEC 60243-1
	38.5 kV/mm	978 kV/in	
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.012	0.012	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.070	0.070	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	0.13	0.13	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MFR,10-100,GF30; ISO 1043 PA GF FR (30+40)	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	

Descriptive Properties	Value	Comments
	Near East/Africa	
	North America	
	South and Central America	

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