Lanxess DurethanÂ® AKV 30 GIT 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, suitable for GIT (gas assisted technology), good surface finish, good heat-ageing resistance

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-30-GIT-H20-900116-Nylon-66-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.368 g/cc	0.04942 lb/inÂ³	ISO 1183
Water Absorption	5.0 %	5.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23Â°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	Conditioned; ISO 527-1/-2
	190 MPa	27600 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	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
	9.20 GPa	1330 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cmÂ² @Temperature -30.0 Â°C	28.6 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	6.00 J/cmÂ² @Temperature -30.0 Â°C	28.6 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	7.00 J/cmÂ² @Temperature 23.0 Â°C	33.3 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU
	8.00 J/cmÂ² @Temperature 23.0 Â°C	38.1 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature -30.0	<= 4.76 ft-lb/inÂ² @Temperature -22.0	ISO 179/1eA

Mechanical Properties	Metric Â°C	English Â°F	Comments
	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eA
	1.00 J/cmÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA
	1.50 J/cmÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	855	855	Puncture maximum force (N); ISO 6603-2
	1043	1043	Puncture maximum force, Conditioned (N); ISO 6603-2
	770 @Temperature -30.0 Â°C	770 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.10 J	1.55 ft-lb	ISO 6603-2
	3.70 J	2.73 ft-lb	Conditioned; ISO 6603-2
	2.00 J @Temperature -30.0 Â°C	1.48 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	2.00 J @Temperature -30.0 Â°C	1.48 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1/-2
Melting Point	260 Â°C	500 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)	220 Â°C	428 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	90.0 Â°C	194 Â°F	ISO 75-1/-2
Vicat Softening Point	230 Â°C	446 Â°F	50Â°C/h 50N; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	HB	HB	IEC 60695-11-10
Oxygen Index	25 %	25 %	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	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
	4.2 @Frequency 1.00e+6 Hz	4.2 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	8.0 @Frequency 100 Hz	8.0 @Frequency 100 Hz	Conditioned; IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	Conditioned; IEC 60243-1
	45.0 kV/mm	1140 kV/in	IEC 60243-1
Dissipation Factor	0.0080 @Frequency 100 Hz	0.0080 @Frequency 100 Hz	IEC 60250
	0.016 @Frequency 1.00e+6 Hz	0.016 @Frequency 1.00e+6 Hz	IEC 60250
	0.070 @Frequency 1.00e+6 Hz	0.070 @Frequency 1.00e+6 Hz	Conditioned; IEC 60250
	0.21 @Frequency 100 Hz	0.21 @Frequency 100 Hz	Conditioned; IEC 60250
Comparative Tracking Index	475 V	475 V	IEC 60112

Descriptive Properties	Value	Comments

Additives Release agent

Descriptive Properties	Value	Comments
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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