Lanxess DurethanÂ® AKV 325 H2.0 901510 Nylon 66, 25% Glass Fiber

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

Material Notes:

PA 66, 25% glass fibers, extrusion- and blow molding grade, branched, high viscosity, good heat-ageing resistance, good hydrolysis resistance

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-325-H20-901510-Nylon-66-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/inÂ³	ISO 1183
Viscosity Test	210 cmÂ³/g	210 cmÂ³/g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577
Melt Flow	9 g/10 min @Load 5.00 kg, Temperature 290 Â°C	9 g/10 min @Load 11.0 lb, Temperature 554 Â°F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Conditioned; ISO 527-1/-2
	160 MPa	23200 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
	10 %	10 %	Conditioned; ISO 527-1/-2
Tensile Modulus	5.30 GPa	769 ksi	Conditioned; ISO 527-1/-2
	8.80 GPa	1280 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cmÂ² @Temperature -30.0 Â°C	30.9 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eU
	6.50 J/cmÂ² @Temperature -30.0 Â°C	30.9 ft-lb/inÂ² @Temperature -22.0 Â°F	Conditioned; ISO 179/1eU
	8.00 J/cmÂ² @Temperature 23.0 Â°C	38.1 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	9.00 J/cmÂ² @Temperature 23.0 Â°C	42.8 ft-lb/inÂ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/1eA
	<= 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	862	862	Puncture maximum force (N); ISO 6603-2
	747 @Temperature -30.0 Â°C	747 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	2.60 J	1.92 ft-lb	ISO 6603-2
	2.10 J @Temperature -30.0 Â°C	1.55 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	2.10 J @Temperature -30.0 Â°C	1.55 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	100 Âµm/m-Â°C	55.6 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)	230 Â°C	446 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 Â°C	176 Â°F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Vicat Softening Point	250 °C	482 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	4.2 @Frequency 100 Hz	4.2 @Frequency 100 Hz	IEC 60250
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243-1
Dissipation Factor	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	IEC 60250
	0.018 @Frequency 1.00e+6 Hz	0.018 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	425 V	425 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,EH,22-090,GF25	
Processing	Blow molding	
	Profile extrusion	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	

Descriptive Properties	Value	Comments
	South and Central America	

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