

Lanxess Durethan® AKV 35 H3.0 000000 Nylon 66, 35% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

PA 66, injection molding grade, 35% glass fibers, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-35-H30-000000-Nylon-66-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	23°C/50% R.H.; Test Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	Conditioned; ISO 527-1/-2
	200 MPa	29000 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	5.0 %	5.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	7.90 GPa	1150 ksi	Conditioned; ISO 527-1/-2
	11.8 GPa	1710 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 J/cm ²	45.2 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	1.00 J/cm ² Metric	4.76 ft-lb/in ² English	Comments Conditioned; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.50 J/cm ² @Temperature 23.0 Â°C	7.14 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179/1eA
	2.00 J/cm ² @Temperature 23.0 Â°C	9.52 ft-lb/in ² @Temperature 73.4 Â°F	Conditioned; ISO 179/1eA
Impact	1027	1027	Puncture maximum force (N); ISO 6603-2
	906 @Temperature -30.0 Â°C	906 @Temperature -22.0 Â°F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	3.90 J	2.88 ft-lb	ISO 6603-2
	2.80 J @Temperature -30.0 Â°C	2.07 ft-lb @Temperature -22.0 Â°F	ISO 6603-2
	2.80 J @Temperature -30.0 Â°C	2.07 ft-lb @Temperature -22.0 Â°F	Conditioned; ISO 6603-2
Tensile Creep Modulus, 1 hour	7000 MPa	1.02e+6 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	5800 MPa	841000 psi	ISO 899-1

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)	250 Â°C	482 Â°F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	155 Â°C	311 Â°F	ISO 75-1/-2
Vicat Softening Point	230 Â°C	446 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	IEC 60695-11-10
Oxygen Index	23 %	23 %	ISO 4589-1/-2

Descriptive Properties	Value	Comments
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 66,MHR,14-120,GF35	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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