

Lanxess Durethan® AKV 25 F30 000000 Nylon 66, 25% 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, 25% glass fiber, injection molding, flame retardant Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-25-F30-000000-Nylon-66-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.2 %	1.2 %	50% RH; ISO 62
Water Absorption at Saturation	3.9 %	3.9 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	60x60x2; 290°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	conditioned, 5 mm/min; ISO 527-1,-2
	150 MPa	21800 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527-1,-2
	2.8 %	2.8 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	8.00 GPa	1160 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	10.5 GPa	1520 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	160 MPa	23200 psi	conditioned, 2 mm/min; ISO 178-A
	220 MPa	31900 psi	2 mm/min; ISO 178-A
Flexural Modulus	7.30 GPa	1060 ksi	conditioned, 2 mm/min; ISO 178-A
	10.0 GPa	1450 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	conditioned; ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180-1U

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	40.0 kJ/m ²	19.0 ft-lb/in ²	conditioned; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	45.0 kJ/m ²	21.4 ft-lb/in ²	conditioned; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J/cm ²	19.0 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	260 °C	500 °F	10 °C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	>= 240 °C	>= 464 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	ISO 75-1,-2
Vicat Softening Point	240 °C	464 °F	50 N; 120 °C/h; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in		
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in		
	5VA @Thickness 1.00 mm	5VA @Thickness 0.0394 in		
Glow Wire Test	775 °C @Thickness 0.800 mm	1430 °F @Thickness 0.0315 in	GWIT; IEC 60695-2-13	
	775 °C @Thickness 1.50 mm	1430 °F @Thickness 0.0591 in	GWIT; IEC 60695-2-13	
	875 °C @Thickness 0.400 mm	1610 °F @Thickness 0.0157 in	GWIT; IEC 60695-2-13	
	900 °C @Thickness 3.00 mm	1650 °F @Thickness 0.118 in	GWIT; IEC 60695-2-13	
	960 °C @Thickness 0.400 mm	1760 °F @Thickness 0.0157 in	GWFI; IEC 60695-2-12	
	960 °C @Thickness 0.800 mm	1760 °F @Thickness 0.0315 in	GWFI; IEC 60695-2-12	
	960 °C @Thickness 1.50 mm	1760 °F @Thickness 0.0591 in	GWFI; IEC 60695-2-12	
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	GWFI; IEC 60695-2-12	
	Shrinkage	0.100 % @Temperature 120 °C, Time 14400 sec	0.100 % @Temperature 248 °F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 294-4
		0.300 % @Temperature 120 °C, Time 14400 sec	0.300 % @Temperature 248 °F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 294-4

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature			Injection molding; ISO 294

Processing Properties	280 °C Metric	536 °F English	Comments
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour @Temperature 80.0 °C	2.00 - 6.00 hour @Temperature 176 °F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	residual; Karl Fischer test

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