

Lanxess Durethan® AKV 15 H2.0 901510 Nylon 66, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

PA 66, injection molding grade, 15% glass fibers, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-AKV-15-H20-901510-Nylon-66-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Viscosity Test	146 cm ³ /g	146 cm ³ /g	Viscosity number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	Conditioned; ISO 527-1/-2
	125 MPa	18100 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
	3.6 %	3.6 %	Nominal; ISO 527-1/-2
	8.0 %	8.0 %	Conditioned; ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	Conditioned; ISO 527-1/-2
	6.30 GPa	914 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
	4.00 J/cm ²	19.0 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature -30.0 ^o C	@Temperature -22.0 ^o F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	Conditioned; ISO 179/1eU
	@Temperature 23.0 ^o C	@Temperature 73.4 ^o F	

Mechanical Properties	$\leq 1.00 \text{ J/cm}^2$ Metric	$\leq 4.76 \text{ ft-lb/in}^2$ English	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature -30.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature -22.0 °F	Conditioned; ISO 179/1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	ISO 179/1eA
	$\leq 1.00 \text{ J/cm}^2$ @Temperature 23.0 °C	$\leq 4.76 \text{ ft-lb/in}^2$ @Temperature 73.4 °F	Conditioned; ISO 179/1eA
Impact	610	610	Puncture maximum force (N); ISO 6603-2
	816	816	Puncture maximum force, Conditioned (N); ISO 6603-2
	593 @Temperature -30.0 °C	593 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	1.70 J	1.25 ft-lb	ISO 6603-2
	2.10 J	1.55 ft-lb	Conditioned; ISO 6603-2
	0.700 J @Temperature -30.0 °C	0.516 ft-lb @Temperature -22.0 °F	ISO 6603-2
	0.700 J @Temperature -30.0 °C	0.516 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 $\mu\text{m/m-}^\circ\text{C}$	22.2 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 $\mu\text{m/m-}^\circ\text{C}$	50.0 $\mu\text{in/in-}^\circ\text{F}$	ISO 11359-1/-2
Melting Point	263 °C	505 °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)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	70.0 °C	158 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	24 %	24 %	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+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	Conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	9.0	9.0	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	35.0 kV/mm	889 kV/in	Conditioned; IEC 60243-1
Dissipation Factor	0.0090	0.0090	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.017	0.017	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	
	0.22	0.22	Conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additives	Release agent		
Features	Heat stabilized or stable to heat		
Form	Pellets		
ISO Shortname	ISO 1874-PA 66,MHR,14-060,GF15		
Processing	Injection molding		
Region	Asia Pacific		
	Europe		
	Near East/Africa		
	North America		
	South and Central America		

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China