

DSM Akulon® K224-HG3 Nylon 6- 15% Glass Reinforced (European and Asian Grade) (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

The Akulon® product portfolio is engineered for optimum performance to suit different processing techniques and end use markets. Akulon Nylon 6 is used for extrusion applications including barrier film, stock shapes, convoluted tubes, and monofilament. Akulon XP is a high-productivity, high-performance PA6 grade for film extrusion processes. Medium viscosity, unreinforced or reinforced Akulon grades are used for various injection molding and blow molding applications. Akulon® Ultraflow® is a high-productivity, high-performance PA6 family for molding processes. Key applications for Akulon: Automotive: Intake manifold, Engine, Powertrain, Airbag containers, Exterior trim, Interior trim, Electrical components and connectors Consumer durables: Power tools, Lawn and garden tools, Small appliances, Sports and leisure equipment, Furniture, Industrial Goods, Transportation E&E: Low voltage switch gear/power distribution, Lighting, Power connectors Film: Specialty and barrier films Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K224-HG3-Nylon-6-15-Glass-Reinforced-European-and-Asian-Grade-Cond.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	(DAM); ISO 1183
Water Absorption	7.6 %	7.6 %	DAM; Sim. to ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	Humidity Absorption (DAM); Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	3.50 GPa	508 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min (DAM); ISO 11357-1/-3
UL RTI, Electrical	150 °C	302 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	UL746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
UL RTI, Mechanical with Impact	120 °C	248 °F	UL746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	125 °C	257 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	150 °C	302 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	UL746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.5	4.5	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	14	14	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60243-1
Dissipation Factor	0.12	0.12	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.15	0.15	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	425 V	425 V	IEC 60112
	400 - 599 V	400 - 599 V	

Descriptive Properties	Value	Comments
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Heat stabilized or stable to heat Descriptive Properties	Yes Value	Comments
Injection molding	Yes	
Release Agent	Yes	
With Fillers	Yes	

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