

DSM Akulon® K224-HG4 Nylon 6-20% Glass Reinforced (European 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-HG4-Nylon-6-20-Glass-Reinforced-European-Grade-Cond.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	(DAM); ISO 1183
Water Absorption	7.2 %	7.2 %	DAM; Sim. to ISO 62
Moisture Absorption at Equilibrium	2.15 %	2.15 %	Humidity Absorption (DAM); Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	ISO 527-1/-2
Elongation at Break	5.5 %	5.5 %	ISO 527-1/-2
Tensile Modulus	4.30 GPa	624 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min (DAM); ISO 11357-1/-3
UL RTI, Electrical	140 °C	284 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	140 °C	284 °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	

Thermal Properties	Metric	English	UL 746B Comments
UL RTI, Mechanical without Impact	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	UL 746B
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	150 °C	302 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Constant	4.5	4.5	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	17	17	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
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	475 V	475 V	IEC 60112
	400 - 599 V	400 - 599 V	
			PLC 1; UL 746A

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

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