DSM Akulon® K224-HG5 Nylon 6-25% Glass Reinforced (European and Asian Grade) (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% 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 connectorsConsumer durables: Power tools, Lawn and garden tools, Small appliances, Sports and leisure equipment, Furniture, Industrial Goods, TransportationE&E: Low voltage switch gear/power distribution, Lighting, Power connectorsFilm: Specialty and barrier filmsInformation provided by DSM.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DSM-Akulon-K224-HG5-Nylon-6-25-Glass-Reinforced-European-and-Asian-Grade-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in³	ISO 1183
Water Absorption	6.8 %	6.8 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	Humidity Absorption; Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm² @Temperature -30.0 °C	33.3 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	9.00 J/cm² @Temperature 23.0 °C	42.8 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm² @Temperature -30.0 °C	4.28 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	1.20 J/cm² @Temperature 23.0 °C	5.71 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 20.0 °C	16.7 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75-1/-2
UL RTI, Electrical	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	UL746B
	140 °C @Thickness 0.710 mm	284 °F @Thickness 0.0280 in	UL746B
UL RTI, Mechanical with Impact	120 °C @Thickness 0.710 mm	248 °F @Thickness 0.0280 in	UL746B
	125 °C @Thickness 1.50 mm	257 °F @Thickness 0.0591 in	UL746B
UL RTI, Mechanical without Impact	140 °C @Thickness 0.710 mm	284 °F @Thickness 0.0280 in	UL746B
	150 °C @Thickness 1.50 mm	302 °F @Thickness 0.0591 in	UL746B
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Constant	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	IEC 60250
	3.5	3.5	IEC 60250

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.015 @Frequency 1e+6 Hz	0.015 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	400 - 599 V	400 - 599 V	PLC 1; UL 746A
	550 V	550 V	IEC 60112

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

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