

DSM Akulon® Ultraflow™ K-FG6 Nylon 6-30% Glass Reinforced (European Grade) (Cond)

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 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-Ultraflow-K-FG6-Nylon-6-30-Glass-Reinforced-European-Grade-Cond.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	(DAM); ISO 1183
Water Absorption	6.0 %	6.0 %	DAM; Sim. to ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	Humidity Absorption (DAM); Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4
	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	7.0 %	7.0 %	ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.20 J/cm ²	10.5 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179/1eA Comments
	@ 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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	5.0	5.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	14	14	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.12	0.12	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.30	0.30	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Descriptive Properties	Value	Comments
Injection molding	Yes	
With Fillers	Yes	

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