DSM Akulon® S223-HM8 (Cond.) 40% Mineral Reinforced, Heat Stabilized Nylon 66 (North America)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Description: The Akulon portfolio is engineered for optimum performance to suit different processing techniques and end use markets.Unfilled Extrusion ResinsAkulon resins are available with melt viscosities to suit all extrusion processes: barrier and coating film, tube and hose, monofilament, stock shapes. Akulon resins are characterized by:consistent qualityhigh purity for film applications, low gel contents. Molding ResinsSuited to all engineering demands: Unfilled low and medium viscosity gradesToughened unfilled gradesGlass reinforced from 20-45% filledLow warpage reinforced gradesFlame retardant; UL V0 rated and glow wire typesHalogen free FR gradesBlow moldable materialsLaser markable resinsLaser weldable, high burst pressure gradesToughened, reinforced resinsHigh stiffness grades for metal replacement Akulon Ultraflow resins have high flow with mechanical properties similar to standard materials. Exceptional flow allows: productivity gains in moldinglower built in stressesbetter surface appearancesystem cost reductions Applications for Molding resins There is an Akulon resin available suitable for any application requiring polyamides. Key areas where DSM has specific application knowledge areAutomotiveUnder the hood and engine componentsExterior and interior applicationsElectrical components and connectorsElectricalLow voltage power distributionLightingPower connectorsConsumer DurablesPower and lawn and garden toolsSmall AppliancesSports and leisure equipmentFurniture accessoriesIndustrial GoodsTransportation (railways)Information provided by DSM.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DSM-Akulon-S223-HM8-Cond-40-Mineral-Reinforced-Heat-Stabilized-Nylon-66-North-America.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in³	(DAM); ISO 1183
Water Absorption	5.3 %	5.3 %	(DAM); Sim. to ISO 62
Moisture Absorption at Equilibrium	1.4 %	1.4 %	Humidity Absorption (DAM); Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Break	5.5 %	5.5 %	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm² @Temperature -30.0 °C	19.0 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm² @Temperature -30.0 °C	1.43 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA
	1.00 J/cm²	4.76 ft-lb/in²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	8500 MPa	1.23e+6 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min (DAM); ISO 11357-1/-3

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	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 60250
	10 @Frequency 100 Hz	10 @Frequency 100 Hz	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Dissipation Factor	0.10 @Frequency 1e+6 Hz	0.10 @Frequency 1e+6 Hz	IEC 60250
	0.30 @Frequency 100 Hz	0.30 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	600 V	600 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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