

General Information
Product Description

Flame Retardant (halogen free), Heat Stabilized

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant • Heat Stabilizer		
Features	• Flame Retardant	• Halogen Free	• Heat Stabilized
Uses	• Electrical/Electronic Applications		
Agency Ratings	• VDE Unspecified Rating		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6 FR(30)		

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.91	--	%	
Flow	1.1	--	%	
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3800	1400	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	22	%	ISO 527-2
Nominal Tensile Strain at Break	8.0	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	6.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	
23°C	60	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
0.45 MPa, Unannealed	180	--	°C	
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	75.0	--	°C	
Melting Temperature ²	220	--	°C	ISO 11357-3
CLTE - Flow	9.0E-5	--	cm/cm/°C	ISO 11359-2
CLTE - Transverse	9.0E-5	--	cm/cm/°C	ISO 11359-2

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Akulon® K225-KS

DSM Engineering Plastics - Polyamide 6

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+13	ohms-cm	IEC 60093
Electric Strength	30	25	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.30	8.00		
1 MHz	3.20	3.60		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.13		
1 MHz	0.020	0.080		
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.38 mm	V-0	--		
1.5 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.38 mm	960	--	°C	
1.5 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.38 mm	960	--	°C	
1.5 mm	960	--	°C	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min