



Akulon® K224-HGM35 (Cond)

DSM Engineering Plastics - Polyamide 6

Monday, September 15, 2008

General Information

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight	• Mineral Filler, 25% Filler by Weight
Additive	• Heat Stabilizer	• Lubricant • Mold Release
Features	• Heat Stabilized	• Lubricated
RoHS Compliance	• Contact Manufacturer	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM and ISO Properties ¹

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	696000 psi	4800 MPa	ISO 527-2
Tensile Stress (Break)	9720 psi	67.0 MPa	ISO 527-2
Tensile Strain (Break)	6.0 %	6.0 %	ISO 527-2

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.43 ft-lb/in ²	3.00 kJ/m ²	
73°F (23°C)	2.86 ft-lb/in ²	6.00 kJ/m ²	
73°F (23°C)	2.86 ft-lb/in ²	6.00 kJ/m ²	
-22°F (-30°C)	1.43 ft-lb/in ²	3.00 kJ/m ²	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity			IEC 60093
--	1.0E+12 ohm-cm	1.0E+12 ohm-cm	
--	3.9E+11 ohm-in	1.0E+10 ohm-m	
Relative Permittivity			IEC 60250
100 Hz	14.0	14.0	
1E+6 Hz	4.50	4.50	
100 Hz	14.0	14.0	
1 MHz	4.50	4.50	
Dissipation Factor			IEC 60250
100 Hz	0.320	0.320	
1E+6 Hz	0.120	0.120	
100 Hz	0.32	0.32	
1 MHz	0.12	0.12	
Electric Strength			IEC 60243-1
--	762.00 V/mil	30.00 kV/mm	
--	760 V/mil	30 kV/mm	

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

