

**General Information**
**Product Description**

40% Glass Reinforced, Impact Modified

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Additive	• Impact Modifier		
Features	• Impact Modified		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-I-GF40		

**ASTM & ISO Properties<sup>1</sup>**

<b>Physical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.43	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.81	--	%	
Flow	0.35	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.9	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	11500	7000	MPa	ISO 527-2
Tensile Stress (Break)	170	115	MPa	ISO 527-2
Tensile Strain (Break)	4.5	7.0	%	ISO 527-2
Flexural Modulus	10000	--	MPa	ISO 178
Flexural Stress	260	--	MPa	ISO 178
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	16	kJ/m <sup>2</sup>	
23°C	25	35	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	110	110	kJ/m <sup>2</sup>	
23°C	110	110	kJ/m <sup>2</sup>	
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature				ISO 75-2/B
0.45 MPa, Unannealed	215	--	°C	
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	200	--	°C	
CLTE - Flow	2.0E-5	--	cm/cm/°C	ISO 11359-2
CLTE - Transverse	6.5E-5	--	cm/cm/°C	ISO 11359-2

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# Akulon® K224-PG8

## 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	25	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.50	14.0		
1 MHz	3.30	4.50		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.30		
1 MHz	0.015	0.12		
Comparative Tracking Index	--	600	V	IEC 60112

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.