

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

Impact Modified, Heat Stabilized

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer • Impact Modifier		
Features	• Heat Stabilized • Impact Modified		

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	1.4	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	625	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	50.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	30	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Flexural Modulus	1600	--	MPa	ISO 178
Flexural Stress	65.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	18	25	kJ/m <sup>2</sup>	
23°C	65	75	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
0.45 MPa, Unannealed	130	--	°C	
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	55.0	--	°C	
CLTE - Flow	1.2E-4	--	cm/cm/°C	ISO 11359-2
CLTE - Transverse	1.2E-4	--	cm/cm/°C	ISO 11359-2

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# Akulon® K223-KTP4

## DSM Engineering Plastics - Polyamide 6

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	5.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms-cm	IEC 60093
Electric Strength	27	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.10	10.0		
1 MHz	2.70	3.50		
Dissipation Factor				IEC 60250
100 Hz	3.0E-3	0.16		
1 MHz	0.016	0.10		
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
1.6 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.5 mm	700	--	°C	
2.0 mm	700	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.5 mm	725	--	°C	
2.0 mm	725	--	°C	

### Notes

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