


Akulon® K224-HPG3

PA6-I-GF15

DSM Engineering Plastics

Product Texts

15% Glass Reinforced, Heat Stabilized, Impact Modified

ISO 1043 PA6-I-GF15

[Akulon website](#)

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5400 / 2600	MPa	ISO 527-1/-2
Stress at break	105 / 60	MPa	ISO 527-1/-2
Strain at break	4 / 15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	70 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / 9	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	185 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.6 / 14	-	IEC 60250
Relative permittivity, 1MHz	3.3 / 4.5	-	IEC 60250
Dissipation factor, 100Hz	100 / 1500	E-4	IEC 60250
Dissipation factor, 1MHz	180 / 1200	E-4	IEC 60250
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	6.8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m ³	ISO 1183

Characteristics
Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Other text information
Injection Molding
[Injection Molding Recommendations](#)