

Akulon® K224-HPG3

PA6-I-GF15

15% Glass Reinforced, Heat Stabilized, Impact Modified

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
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		
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)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	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		
Relative permittivity (100Hz)	3.6 / 14	-	IEC 60250
Relative permittivity (1 MHz)	3.3 / 4.5	-	IEC 60250
Dissipation factor (100 Hz)	100 / 1500	E-4	IEC 60250
Dissipation factor (1 MHz)	180 / 1200	E-4	IEC 60250
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093

Property Data

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Properties	Typical Data	Unit	Test Method
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	* / 500	V	IEC 60112

Other properties

dry / cond

Water absorption	6.8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m ³	ISO 1183