

Akulon® K224-G3

PA6-GF15

15% Glass Reinforced

Print Date: 2019-10-18

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.32 / *	%	ISO 294-4
Molding shrinkage (normal)	0.96 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	6000 / 3500	MPa	ISO 527-1/-2
Stress at break	125 / 70	MPa	ISO 527-1/-2
Strain at break	3 / 12	%	ISO 527-1/-2
Flexural modulus	5200 / -	MPa	ISO 178
Flexural strength	170 / -	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 6	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°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	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10

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Thickness tested	0.75 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond		
Relative permittivity (100Hz)	3.5 / 14	-	IEC 60250
Relative permittivity (1 MHz)	4.7 / 4.5	-	IEC 60250
Dissipation factor (100 Hz)	55 / 1500	E-4	IEC 60250
Dissipation factor (1 MHz)	180 / 1200	E-4	IEC 60250
Volume resistivity	1E13 / 1E13	Ohm*m	IEC 60093
Surface resistivity	- / 1E14	Ohm	IEC 60093
Electric strength	35 / 25	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112
Other properties	dry / cond		
Water absorption	7.6 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1230 / -	kg/m ³	ISO 1183