

Akulon® K222-KGMV14

PA6-(GF+MD)25 FR(30)

5% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized, Flame Retardant (halogen-phosphorous-free)

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	7000 / 3000	MPa	ISO 527-1/-2
Stress at break	90 / 45	MPa	ISO 527-1/-2
Strain at break	2.5 / 25	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	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)	190 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.6 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12

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Properties	Typical Data	Unit	Test Method
GWFI (Thickness (2) tested)	1 / -	mm	IEC 60695-2-12
Electrical properties	dry / cond		
Relative permittivity (100Hz)	4.2 / 10	-	IEC 60250
Relative permittivity (1 MHz)	3.8 / 3.9	-	IEC 60250
Dissipation factor (100 Hz)	90 / 3000	E-4	IEC 60250
Dissipation factor (1 MHz)	190 / 1000	E-4	IEC 60250
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	475 / 475	V	IEC 60112
Other properties	dry / cond		
Water absorption	6.8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m ³	ISO 1183