

Akulon[®] K222–KGMV14

PA6—(GF+MD)25 FR(30)

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

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 3.0 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	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

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
GWFI (Thickness (1) tested)	1.6 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	1 / –	mm	IEC 60695–2–12

ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	4.2 / 10	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.8 / 3.9	–	IEC 62631–2–1
Dissipation factor (100 Hz)	90 / 3000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	190 / 1000	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2
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/m³	ISO 1183