

Akulon® K222-KMV5

PA6-MD25 FR(30)

25% Mineral Reinforced, Heat Stabilized, Flame Retardant (halogen free)

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.91 / *	%	ISO 294-4
Molding shrinkage (normal)	0.82 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	6500 / 2700	MPa	ISO 527-1/-2
Stress at break	70 / 38	MPa	ISO 527-1/-2
Strain at break	2.5 / 30	%	ISO 527-1/-2
Flexural modulus	6700 / 2700	MPa	ISO 178
Flexural strength	110 / 55	MPa	ISO 178
Charpy impact strength (+23°C)	29 / 100	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)	2 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2 / 2	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)	110 / *	°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)	0.5 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-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



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Properties	Typical Data	Unit	Test Method
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
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	3 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	700 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	3 / -	mm	IEC 60695-2-13

Electrical properties

dry / cond

Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	- / >1E15	Ohm	IEC 62631-3-2
Comparative tracking index	* / 600	V	IEC 60112

Other properties

dry / cond

Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1380 / -	kg/m ³	ISO 1183

