

Akulon[®] K223–KMV6

PA6–MD30 FR(17)

30% Mineral Reinforced, Heat Stabilized, Flame Retardant

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.63 / *	%	ISO 294–4
Molding shrinkage (normal)	0.63 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6600 / 3500	MPa	ISO 527–1/–2
Stress at break	70 / 40	MPa	ISO 527–1/–2
Strain at break	2.5 / 4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	35 / 60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 2	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	2 / 2	kJ/m²	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)	120 / *	°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–0 / *	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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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 / –	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	725 / –	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.75 / –	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	775 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	3 / –	mm	IEC 60695–2–13
ELECTRICAL PROPERTIES		DRY / COND	
Relative permittivity (100Hz)	3.6 / 10	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.2 / 3.7	–	IEC 62631–2–1
Dissipation factor (100 Hz)	85 / 3000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	140 / 900	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	375 / 375	V	IEC 60112
OTHER PROPERTIES		DRY / COND	
Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1530 / –	kg/m³	ISO 1183