

Akulon[®] K222–KMV5 /A

PA6–MD25 FR(30)

25% Mineral Reinforced, Flame Retardant (halogen free), Color stabilized

Print Date: 2024–03–27

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/m²	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 4	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)	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
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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
GWFI (Thickness (2) tested)	3 / –	mm	IEC 60695–2–12
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/m³	ISO 1183

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