

# Akulon<sup>®</sup> K222–KMV5

## PA6–MD25 FR(30)

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

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	0.91 / *	%	ISO 294–4
Molding shrinkage (normal)	0.82 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
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 <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 4	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	2 / 2	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
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

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thicken.	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 <sup>3</sup>	ISO 1183