

# Akulon<sup>®</sup> Ultraflow K–FKMV5

## PA6–MD25 FR(30)

25% Mineral Reinforced, Flame Retardant (halogen free), High Flow

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	6200 / 2500	MPa	ISO 527–1/–2
Stress at break	65 / 35	MPa	ISO 527–1/–2
Strain at break	2 / 25	%	ISO 527–1/–2
Flexural modulus	6500 / –	MPa	ISO 178
Flexural strength	115 / –	MPa	ISO 178
Charpy impact strength (+23°C)	25 / 30	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	25 / –	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / 2	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	2 / –	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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
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

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	1.5 / –	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)	1.5 / –	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

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