

# Akulon<sup>®</sup> K222–KGV4

## PA6–GF20 FR(30)

20% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen–phosphorous–free)

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)	1 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	6000 / 2500	MPa	ISO 527–1/–2
Stress at break	85 / 45	MPa	ISO 527–1/–2
Strain at break	3.6 / 15	%	ISO 527–1/–2
Flexural modulus	5700 / 2500	MPa	ISO 178
Flexural strength	140 / 65	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 110	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)	3.5 / 7	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	3 / 3	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)	140 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	210 / *	°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)	1.6 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	1 / –	mm	IEC 60695–2–12
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Relative permittivity (100Hz)	4.3 / 10	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.8 / 3.9	–	IEC 62631–2–1
Dissipation factor (100 Hz)	130 / 3000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	210 / 1000	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	575 / *	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1340 / –	kg/m <sup>3</sup>	ISO 1183

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