

Akulon[®] CO–KGV5

PA6–GF25 FR(30)

25% Glass Reinforced, Flame Retardant (halogen–phosphorous–free), Laser Markable

Print Date: 2024–10–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6000 / 2810	MPa	ISO 527–1/–2
Stress at break	85 / 37	MPa	ISO 527–1/–2
Strain at break	2.5 / 20.3	%	ISO 527–1/–2
Charpy impact strength (+23°C)	35 / –	kJ/m ²	ISO 179/1eU
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	170 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	213 / *	°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
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
ELECTRICAL PROPERTIES			
	DRY / COND		

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2
Comparative tracking index	475 / –	V	IEC 60112

<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	6.6 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m ³	ISO 1183

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