

Akulon® AKV25FN04UF

Akulon® SG-KGS5/HV

PA66-GF25 FR(40)

25% Glass Fiber Reinforced, High Flow, Halogen free and free of red phosphorous

Print Date: 2026-03-25

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.04 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	10000 / 7000	MPa	ISO 527-1/-2
Stress at break	140 / 100	MPa	ISO 527-1/-2
Strain at break	3.2 / 4	%	ISO 527-1/-2
Flexural modulus	8650 / 6400	MPa	ISO 178
Flexural strength	225 / 155	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 13	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	245 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.31 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.77 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at 0.4 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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	800 / –	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / –	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	825 / –	°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
Electric strength	40 / 34	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112

OTHER PROPERTIES

DRY / COND

Water absorption	5.2 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1390 / –	kg/m ³	ISO 1183

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