

# Akulon<sup>®</sup> AKV25FN04UF

 Akulon<sup>®</sup> SG-KGS5/HV

## PA66-GF25 FR(40)

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

Print Date: 2026-04-09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.04 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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 <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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 <sup>3</sup>	ISO 1183

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