

Akulon[®] SG–KGS6

PA66–GF30 FR(40)

30% Glass Reinforced, Halogen free and free of red phosphorous

Print Date: 2024–10–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	0.8 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	11000 / 8500	MPa	ISO 527–1/–2
Stress at break	150 / 115	MPa	ISO 527–1/–2
Strain at break	2.8 / 3.2	%	ISO 527–1/–2
Charpy impact strength (+23°C)	63 / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / –	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
Burning Behav. at 1.5 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Oxygen index	32 / *	%	ISO 4589–1/–2

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Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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<i>ELECTRICAL PROPERTIES</i>			
Electric strength	36 / 32	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>			
Water absorption	4.3 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1440 / –	kg/m ³	ISO 1183