Property Data (Provisional)

Envalior
Imagine the Future

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/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / –	kJ/m²	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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES	DRY / COND		
Electric strength	36 / 32	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	4.3 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1440 / –	kg/m³	ISO 1183