

Akulon® K224-TG9

PA6-GF45

45% Glass Fiber Reinforced

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.15 / *	%	ISO 294-4
Molding shrinkage (normal)	0.95 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	14500 / 9100	MPa	ISO 527-1/-2
Stress at break	220 / 140	MPa	ISO 527-1/-2
Strain at break	3.8 / 6	%	ISO 527-1/-2
Flexural modulus	13500 / 8500	MPa	ISO 178
Flexural strength	350 / 220	MPa	ISO 178
Tensile modulus (200°C)	4400	MPa	ISO 527-1/-2
Stress at break (200°C)	45	MPa	ISO 527-1/-2
Strain at break (200°C)	8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	105 / 115	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 95	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	18 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	13 / 13	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 30	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.5 / 14	_	IEC 62631-2-1
Relative permittivity (1 MHz)	5.2 / 4.5	_	IEC 62631-2-1
Dissipation factor (100 Hz)	50 / 3000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	150 / 1200	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E14	Ohm	IEC 62631-3-2
Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Water absorption	5/*	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1510 / –	kg/m³	ISO 1183

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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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