Property Data

Envalior
Imagine the Future

Akulon® K224-G6U

PA6-GF33

33% Glass Fiber Reinforced

Print Date: 2025-04-03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	10500 / 6600	MPa	ISO 527-1/-2
Stress at break	185 / 110	MPa	ISO 527-1/-2
Strain at break	3.5 / 5	%	ISO 527-1/-2
Flexural modulus	9500 / -	MPa	ISO 178
Flexural strength	280 / -	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 30	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 11	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	13 / -	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)	210 / *	°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
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	DRY / COND		

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Relative permittivity (100Hz)	3.5 / 20	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 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	30 / 25	kV/mm	IEC 60243–1

OTHER PROPERTIES	*DRY / COND*		
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1390 / *	kg/m³	ISO 1183