Property Data

Envalior
Imagine the Future

Akulon® K224-PG6 B-MB

PA6-I-GF30

30% Glass Reinforced, Impact Modified

Print Date: 2024-10-31

Sustainability

Bio-based
Mass balanced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.39 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	8700 / 4750	MPa	ISO 527-1/-2
Stress at break	150 / 105	MPa	ISO 527-1/-2
Strain at break	5 / 10	%	ISO 527-1/-2
Flexural modulus	8500 / 4900	MPa	ISO 178
Flexural strength	250 / 140	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / 100	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	23 / 43	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / 15	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°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)	0.9 / *	E-4/°C	ISO 11359-1/-2

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
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)	3.8 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.5 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	90 / 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
Comparative tracking index	– / 600	V	IEC 60112

OTHER PROPERTIES	*DRY / COND*		
Water absorption	5.7 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1320 / –	kg/m³	ISO 1183