

Akulon[®] K224–PG3

PA6–I–GF15

15% Glass Reinforced, Impact Modified

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.4 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	5400 / 2600	MPa	ISO 527–1/–2
Stress at break	105 / 60	MPa	ISO 527–1/–2
Strain at break	4 / 15	%	ISO 527–1/–2
Charpy impact strength (+23°C)	70 / 90	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	70 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 25	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9 / 9	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Temp. of deflection under load (1.80 MPa)	185 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	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
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	3.6 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 4.5	–	IEC 62631–2–1

Property Data

Akulon[®] K224–PG3

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Dissipation factor (100 Hz)	100 / 1500	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	180 / 1200	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631–3–1
Surface resistivity	– / >1E15	Ohm	IEC 62631–3–2
Electric strength	25 / 20	kV/mm	IEC 60243–1
Comparative tracking index	– / 500	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	6.8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1200 / –	kg/m³	ISO 1183