

Akulon[®] K224–HPG7

PA6–I–GF35

35% Glass Reinforced, Impact Modified, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	10100 / 6500	MPa	ISO 527–1/–2
Stress at break	160 / 110	MPa	ISO 527–1/–2
Strain at break	4.5 / 7	%	ISO 527–1/–2
Flexural modulus	9700 / –	MPa	ISO 178
Flexural strength	250 / –	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 105	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	100 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	24 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	16 / 17	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)	0.15 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.6 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES			
	DRY / COND		
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	DRY / COND		
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1370 / –	kg/m³	ISO 1183
Ash content	35	%	ISO 3451