

Akulon[®] K224–HG2

PA6–GF10

10% Glass Reinforced, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.3 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	4500 / 2900	MPa	ISO 527–1/–2
Stress at break	100 / 68	MPa	ISO 527–1/–2
Strain at break	4 / 9	%	ISO 527–1/–2
Flexural modulus	4200 / –	MPa	ISO 178
Flexural strength	150 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	3.8 / 7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	3 / 3.1	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	195 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.35 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.2 / *	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

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	0.75 / *	mm	IEC 60695–11–10
OTHER PROPERTIES		DRY / COND	
Water absorption	7.7 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1210 / *	kg/m³	ISO 1183