

Akulon[®] K224–G4

PA6–GF20

20% Glass Reinforced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	7300 / 4300	MPa	ISO 527–1/–2
Stress at break	145 / 85	MPa	ISO 527–1/–2
Strain at break	3.5 / 10	%	ISO 527–1/–2
Flexural modulus	6300 / –	MPa	ISO 178
Flexural strength	190 / –	MPa	ISO 178
Charpy impact strength (+23°C)	65 / –	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	55 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / –	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8 / –	kJ/m²	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)	215 / *	°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)	0.9 / *	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

Property Data

Akulon® K224–G4

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
OTHER PROPERTIES	DRY / COND		
Water absorption	7.2 / *	%	Sim. to ISO 62
Humidity absorption	2.15 / *	%	Sim. to ISO 62
Density	1270 / –	kg/m³	ISO 1183