

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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / -	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)	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

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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/m ³	ISO 1183

