

Akulon[®] K224–G8U

PA6–GF43

43% Glass Reinforced

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.4 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	13500 / 8500	MPa	ISO 527–1/–2
Stress at break	205 / 140	MPa	ISO 527–1/–2
Strain at break	3.7 / 4.5	%	ISO 527–1/–2
Flexural modulus	12000 / –	MPa	ISO 178
Flexural strength	325 / –	MPa	ISO 178
Charpy impact strength (+23°C)	100 / 110	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	90 / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 34	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	15 / 15	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	18 / –	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	212 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES	DRY / COND		

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1490 / *	kg/m³	ISO 1183