

Akulon[®] Ultraflow K–FKG8

PA6–GF40

40% Glass Reinforced, High Flow, Heat Stabilized

Print Date: 2024–04–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		DRY / COND	
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	12500 / 8500	MPa	ISO 527–1/–2
Stress at break	195 / 135	MPa	ISO 527–1/–2
Strain at break	3 / 6	%	ISO 527–1/–2
Flexural modulus	11300 / –	MPa	ISO 178
Flexural strength	275 / –	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	75 / 75	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 24	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	12 / 12	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)	210 / *	°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)	0.15 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.6 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES		DRY / COND	
Water absorption	5.3 / *	%	Sim. to ISO 62

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1450 / –	kg/m³	ISO 1183

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