

Akulon[®] Ultraflow K—FHG12

PA6—GF60

60% Glass Fiber Reinforced, Heat Stabilized, High Flow

Print Date: 2025–12–05

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	20000 / 14000	MPa	ISO 527–1/–2
Stress at break	240 / 160	MPa	ISO 527–1/–2
Strain at break	2.2 / 4	%	ISO 527–1/–2
Flexural modulus	18500 / –	MPa	ISO 178
Flexural strength	365 / –	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	85 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	12 / 12	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)	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)	0.1 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.4 / *	E–4/°C	ISO 11359–1/–2
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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Glow Wire Flammability Index GWFI	850 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	3.1 / –	mm	IEC 60695–2–12

OTHER PROPERTIES	DRY / COND		
Water absorption	3.6 / *	%	Sim. to ISO 62
Humidity absorption	1 / *	%	Sim. to ISO 62
Density	1700 / –	kg/m³	ISO 1183

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