

Akulon[®] Ultraflow K–FHG8

PA6–GF40

40% Glass Reinforced, Heat Stabilized, High Flow

Print Date: 2024–09–17

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/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	75 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 24	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)	200 / *	°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
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Relative permittivity (1 MHz)	3.3 / 4.3	–	IEC 62631–2–1
Dissipation factor (100 Hz)	50 / 3000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	150 / 1200	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 62631–3–1
Surface resistivity	– / >1E15	Ohm	IEC 62631–3–2
Comparative tracking index	500 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	5.4 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1450 / –	kg/m ³	ISO 1183

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