

# Akulon<sup>®</sup> Ultraflow K–FHG6

## PA6–GF30

30% Glass Reinforced, Heat Stabilized, High Flow

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	9500 / 5700	MPa	ISO 527–1/–2
Stress at break	175 / 105	MPa	ISO 527–1/–2
Strain at break	3.3 / 7	%	ISO 527–1/–2
Flexural modulus	9000 / 5500	MPa	ISO 178
Flexural strength	270 / 160	MPa	ISO 178
Tensile modulus (200°C)	2650	MPa	ISO 527–1/–2
Stress at break (200°C)	40	MPa	ISO 527–1/–2
Strain at break (200°C)	8.4	%	ISO 527–1/–2
Charpy impact strength (+23°C)	85 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	65 / 65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	12.5 / 22	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 5	–	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 / 1E12	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E13	Ohm	IEC 62631–3–2
Comparative tracking index	* / 500	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1350 / –	kg/m <sup>3</sup>	ISO 1183

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