

# Akulon<sup>®</sup> Ultraflow K220–HGM44

## PA6–(GF+MD)40

20% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized

Print Date: 2024–09–17

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)	0.9 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	11000 / 6000	MPa	ISO 527–1/–2
Stress at break	135 / 70	MPa	ISO 527–1/–2
Strain at break	2 / 3.5	%	ISO 527–1/–2
Flexural modulus	9000 / –	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 9	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	4.5 / 4.5	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)	185 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2
<b>ELECTRICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 4.5	–	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>
Dissipation factor (100 Hz)	50 / 4000	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	130 / 1200	E–4	IEC 62631–2–1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E13	Ohm	IEC 62631–3–2
Electric strength	35 / 30	kV/mm	IEC 60243–1
Comparative tracking index	550 / 550	V	IEC 60112
 <i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1470 / –	kg/m <sup>3</sup>	ISO 1183

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