

# Akulon<sup>®</sup> K223–HM6

## PA6–MD30

30% Mineral Reinforced, Heat Stabilized

Print Date: 2024–10–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.79 / *	%	ISO 294–4
Molding shrinkage (normal)	0.69 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	6100 / 3000	MPa	ISO 527–1/–2
Stress at break	75 / 40	MPa	ISO 527–1/–2
Strain at break	3.5 / 15	%	ISO 527–1/–2
Flexural modulus	6100 / 2250	MPa	ISO 178
Flexural strength	120 / 50	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	40 / 40	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 4	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	2 / 3	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)	135 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.4 / *	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 1.5 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695–11–10

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Relative permittivity (100Hz)	3.2 / 15	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	50 / 3500	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	130 / 1100	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E13	Ohm	IEC 62631–3–2
Electric strength	30 / 25	kV/mm	IEC 60243–1
Comparative tracking index	500 / 500	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Water absorption	6.6 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1380 / –	kg/m <sup>3</sup>	ISO 1183

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