

Akulon[®] K223–HGM24

PA6–(GF+MD)30

10% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	7500 / 3200	MPa	ISO 527–1/–2
Stress at break	110 / 50	MPa	ISO 527–1/–2
Strain at break	2.5 / 12	%	ISO 527–1/–2
Charpy impact strength (+23°C)	40 / 45	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.8 / 8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	5 / 5	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)	185 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.35 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.6 / *	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
Thickness tested	0.75 / *	mm	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>
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	3.5 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.3 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	50 / 3200	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	140 / 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	* / 500	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1370 / –	kg/m ³	ISO 1183

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