

Akulon[®] K223–P2

PA6–I

Impact Modified

Print Date: 2024–03–27

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1.37 / *	%	ISO 294–4
Molding shrinkage (normal)	1.45 / *	%	ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Tensile modulus	2500 / 750	MPa	ISO 527–1/–2
Nominal strain at break	>50 / >50	%	ISO 527–1/–2
Yield stress	70 / 38	MPa	ISO 527–1/–2
Yield strain	4 / 25	%	ISO 527–1/–2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 28	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8 / 8	kJ/m ²	ISO 179/1eA
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Temp. of deflection under load (1.80 MPa)	55 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	130 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.4 / *	E–4/°C	ISO 11359–1/–2
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	3.4 / 14	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.1 / 4.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	80 / 3000	E–4	IEC 62631–2–1

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Dissipation factor (1 MHz)	200 / 1200	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2
Electric strength	28 / 20	kV/mm	IEC 60243–1
Comparative tracking index	* / 600	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1110 / –	kg/m ³	ISO 1183

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