

Akulon[®] K223–KTP4

PA6–I

Impact Modified, Heat Stabilized

Print Date: 2024–04–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	1.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.7 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	2000 / 625	MPa	ISO 527–1/–2
Nominal strain at break	>50 / >50	%	ISO 527–1/–2
Yield stress	50 / 30	MPa	ISO 527–1/–2
Yield strain	4 / 30	%	ISO 527–1/–2
Flexural modulus	1600 / –	MPa	ISO 178
Flexural strength	65 / –	MPa	ISO 178
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)	65 / 75	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	18 / 25	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
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)	1.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.2 / *	E–4/°C	ISO 11359–1/–2
Glow Wire Flammability Index GWFI	700 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	2 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	700 / –	°C	IEC 60695–2–12

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
GWFI (Thickness (2) tested)	1.5 / –	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	725 / –	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	2 / –	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	725 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1.5 / –	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES

DRY / COND

Relative permittivity (100Hz)	3.1 / 10	–	IEC 62631–2–1
Relative permittivity (1 MHz)	2.7 / 3.5	–	IEC 62631–2–1
Dissipation factor (100 Hz)	30 / 1600	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	160 / 1000	E–4	IEC 62631–2–1
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 5E14	Ohm	IEC 62631–3–2
Electric strength	27 / 20	kV/mm	IEC 60243–1
Comparative tracking index	* / 600	V	IEC 60112

OTHER PROPERTIES

DRY / COND

Water absorption	8.5 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1070 / –	kg/m ³	ISO 1183

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