

Akulon[®] K225–KV

PA6 FR(30)

Flame Retardant (halogen free), Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	1 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	4200 / 1600	MPa	ISO 527–1/–2
Nominal strain at break	4 / >50	%	ISO 527–1/–2
Yield stress	70 / 35	MPa	ISO 527–1/–2
Yield strain	3 / 30	%	ISO 527–1/–2
Charpy impact strength (+23°C)	40 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 9	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	3 / 5	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Burning Behav. at 1.5 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
GWFI (Thickness (1) tested)	0.38 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	3 / –	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	930 / –	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.38 / –	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	850 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	3 / –	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	DRY / COND		
Relative permittivity (100Hz)	3.3 / 8	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.2 / 3.6	–	IEC 62631–2–1
Dissipation factor (100 Hz)	90 / 1250	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	200 / 800	E–4	IEC 62631–2–1
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 1E14	Ohm	IEC 62631–3–2
Electric strength	30 / 25	kV/mm	IEC 60243–1
Comparative tracking index	600 / –	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	7.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1210 / –	kg/m³	ISO 1183