

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/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 5	kJ/m ²	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



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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/m ³	ISO 1183

