

Akulon[®] K225-KS

Property Data

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	5.51E5 / 2.03E5	psi	ISO 527-1/-2
Yield stress	11600 / 5800	psi	ISO 527-1/-2
Yield strain	3.5 / 22	%	ISO 527-1/-2
Nominal strain at break	8 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	28.5 / -	ftlb/in ²	ISO 179/1eU
Charpy impact strength (-30°C)	26.2 / -	ftlb/in ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2.85 / 4.76	ftlb/in ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2.38 / 2.38	ftlb/in ²	ISO 179/1eA
THERMAL PROPERTIES			
	dry / cond		
Melting temperature (10°C/min)	428 / *	°F	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	176 / *	°F	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	392 / *	°F	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.5 / *	E-4/°F	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°F	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.0591 / *	in	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.015 / *	in	IEC 60695-11-10
Glow Wire Flammability Index GWFI	1760 / -	°F	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.015 / -	in	IEC 60695-2-12
Glow Wire Flammability Index GWFI	1760 / -	°F	IEC 60695-2-12
GWFI (Thickness (2) tested)	0.0591 / -	in	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	1760 / -	°F	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.015 / -	in	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	1760 / -	°F	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.0591 / -	in	IEC 60695-2-13
ELECTRICAL PROPERTIES			
	dry / cond		
Relative permittivity (100Hz)	3.3 / 8	-	IEC 60250
Relative permittivity (1 MHz)	3.2 / 3.6	-	IEC 60250
Dissipation factor (100 Hz)	90 / 1250	E-4	IEC 60250
Dissipation factor (1 MHz)	200 / 800	E-4	IEC 60250
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Electric strength	762 / 635	kV/in	IEC 60243-1

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Comparative tracking index	600 / 600	-	IEC 60112
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OTHER PROPERTIES

dry / cond

Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	73.7 / -	lb/ft ³	ISO 1183

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