

Akulon® K225-KS

PA6 FR(30)

Flame Retardant (Halogen free), Heat Stabilized

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	1.1/*	%	ISO 294-4
Molding shrinkage (normal)	0.91/*	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	3800/1400	MPa	ISO 527-1/-2
Yield stress	80/40	MPa	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)	60/-	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	55/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6/10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5/5	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220/*	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	180/*	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9/*	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0/*	class	IEC 60695-11-10
Thickness tested	1.5/*	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.38/*	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960/-	°C	IEC 60695-2-12
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)	1.5/-	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	960/-	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.38/-	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	960/-	°C	IEC 60695-2-13

14.03.2012

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Properties	Typical Data	Unit	Test Method
GWIT (Thickness (2) tested)	1.5/-	mm	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	30/25	kV/mm	IEC 60243-1
Comparative tracking index	600/600	-	IEC 60112
Other properties			
	dry / cond		
Water absorption	9/*	%	Sim. to ISO 62
Humidity absorption	2.5/*	%	Sim. to ISO 62
Density	1180/-	kg/m ³	ISO 1183

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