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/in²	ISO 179/1eU
Charpy impact strength (-30°C)	**26.2 / -**	ftlb/in²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**2.85 / 4.76**	ftlb/in²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**2.38 / 2.38**	ftlb/in²	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
OTHER PROPERTIES	dry / cond		
Water absorption	**9 / ***	%	Sim. to ISO 62
Humidity absorption	**2.5 / ***	%	Sim. to ISO 62
Density	**73.7 / -**	lb/ft³	ISO 1183