Property Data

Envalior
Imagine the Future

Akulon® K225-KS

PA6 FR(30)

Flame Retardant (halogen free), Heat Stabilized

Print Date: 2024-06-13

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
Nominal strain at break	6 / >50	%	ISO 527-1/-2
Yield stress	80 / 40	MPa	ISO 527-1/-2
Yield strain	3.5 / 22	%	ISO 527-1/-2
Flexural modulus	3400 / 1300	MPa	ISO 178
Flexural strength	115 / 40	MPa	ISO 178
Charpy impact strength (+23°C)	95 / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 85	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 12	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	kJ/m²	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

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Burning Behav. at 3.0 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10
Oxygen index	40 / *	%	ISO 4589–1/–2
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
GWIT (Thickness (2) tested)	1.5 / –	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 / 600	V	IEC 60112

OTHER PROPERTIES	*DRY / COND*		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62

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Density	1180 / –	kg/m³	ISO 1183

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