Property Data

Envalior
Imagine the Future

Akulon® K222–KGV6

PA6–GF30 FR(30)

30% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen– phosphorous–free)

Print Date: 2024–11–16

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.55 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	7800 / 3500	MPa	ISO 527–1/–2
Stress at break	95 / 50	MPa	ISO 527–1/–2
Strain at break	3.2 / 20	%	ISO 527–1/–2
Flexural modulus	7500 / 3700	MPa	ISO 178
Flexural strength	160 / 80	MPa	ISO 178
Charpy impact strength (+23°C)	43 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength (−30°C)	40 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 7	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)	180 / *	°C	ISO 75–1/–2
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 0.75 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	0.75 / *	mm	IEC 60695–11–10

Akulon® K222–KGV6

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (1) tested)	1.6 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	0.75 / –	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	750 / –	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	1.6 / –	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	775 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	0.75 / –	mm	IEC 60695–2–13

ELECTRICAL PROPERTIES	DRY / COND		
Comparative tracking index	525 / –	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Water absorption	5.6 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1440 / –	kg/m³	ISO 1183