

Akulon® CO-KGV4/A JN.00.86

PA6-GF20 FR

20% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen- phosphorous-free)

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage [parallel]	1.1 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	4800 / -	MPa	ISO 527-1/-2
Stress at break	63 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	2 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
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
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)	0.8 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.6 / -	mm	IEC 60695-2-13



Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Glow Wire Ignition Temperature GWIT	725 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.8 / -	mm	IEC 60695-2-13

Electrical properties

dry / cond

Relative permittivity (100Hz)	4.3 / 10	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.8 / 3.9	-	IEC 62631-2-1
Dissipation factor (100 Hz)	130 / 3000	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	210 / 1000	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 / -	V	IEC 60112

Other properties

dry / cond

Water absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183

