

Akulon® CO-KGV4 /A JN.00.86

PA6-GF20 FR

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

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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 Beh. at 1.5 mm nom. thickn.	V-2/*	class	IEC 60695-11-10
Thickness tested	1.6/*	mm	IEC 60695-11-10
Burning Beh. at thickness h	V-2/*	class	IEC 60695-11-10
Thickness tested	0.8/*	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
Glow Wire Ignition Temperature GWIT	725/-	°C	IEC 60695-2-13

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Properties	Typical Data	Unit	Test Method
GWIT (Thickness (2) tested)	0.8/-	mm	IEC 60695-2-13
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	4.3/10	-	IEC 60250
Relative permittivity (1 MHz)	3.8/3.9	-	IEC 60250
Dissipation factor (100 Hz)	130/3000	E-4	IEC 60250
Dissipation factor (1 MHz)	210/1000	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/-	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

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