

Akulon[®] CO–KGV4/A JN.00.86

PA6–GF20 FR

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

Print Date: 2024–03–27

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

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Glow Wire Ignition Temperature GWIT	725 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	0.8 / –	mm	IEC 60695–2–13
<i>ELECTRICAL PROPERTIES</i>		<i>DRY / COND</i>	
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
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
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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