Property Data (Provisional)



Print Date: 2024-12-10

Akulon[®] CO-KGV4/A JN.00.86

PA6-GF20 FR

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

PROPERTIESTYPICAL DATAUNITTEST METHODRHEOLOGICAL PROPERTIESDRY / CONDMolding shrinkage [parallel] $11/'$ %Sim. to ISO 294-4Molding shrinkage [normal] $11/'$ %Sim. to ISO 294-4MECHANICAL PROPERTIESDRY / CONDTensile modulus $4800 / -$ MPaISO 527-1/-2Stress at break $63/ -$ MPaISO 527-1/-2Strain at break $3/-$ %ISO 527-1/-2Charpy notched impact strength (+23°C) $2/-$ kJ/m²ISO 11367-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2/'$ classIEC 60695-11-10Thickness tested $15/'$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/'$ classIEC 60695-11-10Thickness tested $3/'$ mmIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/'$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/'$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12GWFI (Thickness (1) tested) $16/-$ mmIEC 60695-2-12Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-1				
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Molding shrinkage [normal] $11/$ %Sim. to ISO 294-4MECHANICAL PROPERTIESDRY / CONDTensile modulus $4800/-$ MPaISO 527-1/-2Stress at break $63/-$ MPaISO 527-1/-2Strain at break $3/-$ %ISO 527-1/-2Charpy notched impact strength (+23°C) $2/-$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220/$ °°CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2/$ °classIEC 60695-11-10Thickness tested1.5 / °mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/$ °classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/$ °classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/$ °classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/$ °classIEC 60695-11-10Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12GWFI (Thickness (2) tested)0.8 / -mmIEC 60695-2-12GWFI (Thickness (2) tested)0.8 / -mmIEC 60695-2-12Glow Wire Ignition Temperature GWIT725 / -°CIEC 60695-2-13	RHEOLOGICAL PROPERTIES	DRY / COND		
MECHANICAL PROPERTIESDRY / CONDTensile modulus $4800 / -$ MPaISO 527-1/-2Stress at break $63 / -$ MPaISO 527-1/-2Strain at break $3 / -$ %ISO 527-1/-2Charpy notched impact strength (+23°C) $2 / -$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220 / *$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Thickness tested1.5 / *mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12GWFI (Thickness (1) tested)1.6 / -mmIEC 60695-2-12GWFI (Thickness (2) tested)0.8 / -mmIEC 60695-2-12Glow Wire Ignition Temperature GWIT725 / -°CIEC 60695-2-13	Molding shrinkage [parallel]	1.1 / *	%	Sim. to ISO 294–4
Tensile modulus $4800/-$ MPaISO 527-1/-2Stress at break $63/-$ MPaISO 527-1/-2Strain at break $3/ \%$ ISO 527-1/-2Charpy notohed impact strength (+23°C) $2/-$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220/^{\circ}$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Thickness tested1.5 / $^{\circ}$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960/-°CIEC 60695-2-12GWFI (Thickness (1) tested)1.6 / -mmIEC 60695-2-12Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12Glow Wire Ignition Temperature GWIT725 / -°C<	Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294–4
Stress at break $63/-$ MPaISO $527-1/-2$ Strain at break $3/-$ %ISO $527-1/-2$ Charpy notched impact strength (+23°C) $2/-$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220/*$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2/*$ classIEC 60695-11-10Thickness tested $15/*$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/*$ classIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/*$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/*$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/*$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960/-°CIEC 60695-2-12GWFI (Thickness (2) tested) $16/-$ mmIEC 60695-2-12GWFI (Thickness (2) tested) $0.8/-$ mmIEC 60695-2-12Glow Wire Ignition Temperature GWIT $725/-$ °CIEC 60695-2-12	MECHANICAL PROPERTIES	DRY / COND		
Strain at break $3/-$ %ISO 527-1/-2Charpy notched impact strength (+23°C) $2/-$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220/^{\circ}$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Thickness tested $15/^{\circ}$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Thickness tested $3/^{\circ}$ mmIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2/^{\circ}$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960/-°CIEC 60695-2-12GWFI (Thickness (1) tested) $16/-$ mmIEC 60695-2-12GWFI (Thickness (2) tested) $0.8/-$ mmIEC 60695-2-12Glow Wire Flammability Index GWFI960/-°CIEC 60695-2-12Glow Wire Ignition Temperature GWIT725/-°CIEC 60695-2-12	Tensile modulus	4800 / -	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C) $2 / -$ kJ/m²ISO 179/1eATHERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220 / *$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Thickness tested $15 / *$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12GWFI (Thickness (1) tested)1.6 / -mmIEC 60695-2-12GWFI (Thickness (2) tested)0.8 / -mmIEC 60695-2-12Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12Glow Wire Ignition Temperature GWIT725 / -°CIEC 60695-2-12	Stress at break	63 / -	MPa	ISO 527-1/-2
THERMAL PROPERTIESDRY / CONDMelting temperature (10°C/min) $220 / *$ °CISO 11357-1/-3Burning Behav. at 1.5 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Thickness tested $15 / *$ mmIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 3.0 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Burning Behav. at 0.75 mm nom. thickn. $V-2 / *$ classIEC 60695-11-10Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12GWFI (Thickness (1) tested)16 / -mmIEC 60695-2-12Glow Wire Flammability Index GWFI960 / -°CIEC 60695-2-12Glow Wire Ignition Temperature GWIT725 / -°CIEC 60695-2-12	Strain at break	3 / -	%	ISO 527-1/-2
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 15 /* 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 Thickness tested 3 /* mm IEC 60695–11–10 Burning Behav. at 0.75 mm nom. thickn. V–2 /* class IEC 60695–11–10 Burning Behav. at 0.75 mm nom. thickn. V–2 /* class IEC 60695–11–10 Glow Wire Flammability Index GWFI 960 / – °C IEC 60695–2–12 GWFI (Thickness (1) tested) 16 / – 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 60695–2–12	Charpy notched impact strength (+23°C)	2/-	kJ/m²	ISO 179/1eA
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 Thickness tested 3 /* mm IEC 60695-11-10 Burning Behav. at 0.75 mm nom. thickn. V-2 /* class IEC 60695-11-10 Burning Behav. at 0.75 mm nom. thickn. V-2 /* class IEC 60695-11-10 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Ignition Temperature GWIT 725 / - °C IE	THERMAL PROPERTIES	DRY / COND		
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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 Burning Behav. at 0.75 mm nom. thickn. V-2 /* class 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 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Ignition Temperature GWIT 725 / - °C IEC 60695-2-13	Burning Behav. at 1.5 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 (1) tested) 1.6 / - mm IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 9.8 / - mm IEC 60695-2-12 Glow Wire Ignition Temperature GWIT 725 / - °C IEC 60695-2-13	Thickness tested	1.5 / *	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 Glow Wire Flammability Index GWFI 960 / - °C IEC 60695-2-12 Glow Wire Flammability Index GWFI 960 / - °C 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	Burning Behav. at 3.0 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 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	Thickness tested	3 / *	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	Burning Behav. at 0.75 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
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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	Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested) Ø.8 / - mm IEC 6Ø695-2-12 Glow Wire Ignition Temperature GWIT 725 / - °C IEC 6Ø695-2-13	GWFI (Thickness (1) tested)	1.6 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT 725 / - °C IEC 60695-2-13	Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
	GWFI (Thickness (2) tested)	0.8 / -	mm	IEC 60695-2-12
GWIT (Thickness (1) tested) 1.6 / - mm IEC 60695-2-13	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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Property Data (Provisional)

Akulon[®] CO–KGV4/A JN.00.86

Print Date: 2024-12-10

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/m³	ISO 1183
Humidity absorption	2/*	%	Sim. to ISO 62

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