

# Akulon<sup>®</sup> SafeConnect SC22

## PA66–GF25 FR(17)

25% Glass Reinforced, Flame Retardant

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	0.35 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	11000 / 8000	MPa	ISO 527–1/–2
Stress at break	160 / 115	MPa	ISO 527–1/–2
Strain at break	2.6 / 2.6	%	ISO 527–1/–2
Flexural modulus	10500 / 7600	MPa	ISO 178
Flexural strength	260 / 185	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 16	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75–1/–2
Burning Behav. at 1.5 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 0.4 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	0.4 / *	mm	IEC 60695–11–10
Burning Behav. at 0.75 mm nom. thickn.	V–0 / *	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

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
GWFI (Thickness (1) tested)	0.4 / –	mm	IEC 60695–2–12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695–2–12
GWFI (Thickness (2) tested)	1.6 / –	mm	IEC 60695–2–12
Glow Wire Ignition Temperature GWIT	875 / –	°C	IEC 60695–2–13
GWIT (Thickness (1) tested)	0.4 / –	mm	IEC 60695–2–13
Glow Wire Ignition Temperature GWIT	800 / –	°C	IEC 60695–2–13
GWIT (Thickness (2) tested)	1.6 / –	mm	IEC 60695–2–13
<b><i>ELECTRICAL PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Comparative tracking index	300 / –	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Density	1600 / –	kg/m <sup>3</sup>	ISO 1183