

Akulon® SafeConnect SC21 (S-X08805)

PA66 FR(17)

Flame Retardant

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	1.8 / *	%	ISO 294-4
Molding shrinkage (normal)	1.8 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	3700 / 1650	MPa	ISO 527-1/-2
Strain at break	6 / >50	%	ISO 527-1/-2
Yield stress	80 / 50	MPa	ISO 527-1/-2
Yield strain	3.9 / 14	%	ISO 527-1/-2
Flexural modulus	3600 / 1600	MPa	ISO 178
Flexural strength	125 / 55	MPa	ISO 178
Charpy impact strength (+23°C)	85 / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.5 / 7	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	4.7 / -	kJ/m ²	ISO 180/1A
Thermal properties			
	dry / cond		
Temp. of deflection under load (1.80 MPa)	85 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	225 / *	°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 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	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



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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
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)	3 / -	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	960 / -	°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)	3 / -	mm	IEC 60695-2-13
Electrical properties			
	dry / cond		
Comparative tracking index	250 / -	V	IEC 60112
Other properties			
	dry / cond		
Density	1340 / -	kg/m ³	ISO 1183

