

Akulon® SG-KGS5/HV

PA66-GF25 FR(40)

25% Glass Reinforced, High Flow, Halogen free and free of red phosphorous

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Molding shrinkage (parallel)	0.3	%	ISO 294-4
Molding shrinkage (normal)	1.04	%	ISO 294-4
Mechanical properties			
	Value		
Tensile modulus	10000	MPa	ISO 527-1/-2
Stress at break	140	MPa	ISO 527-1/-2
Strain at break	3.2	%	ISO 527-1/-2
Flexural modulus	8650	MPa	ISO 178
Flexural strength	225	MPa	ISO 178
Charpy impact strength (+23°C)	65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m ²	ISO 179/1eA
Thermal properties			
	Value		
Melting temperature (10°C/min)	260	°C	ISO 11357-1/-3
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75	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	800	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	825	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	3	mm	IEC 60695-2-13



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Properties	Typical Data	Unit	Test Method
Electrical properties			
Electric strength	40	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
Other properties			
Density	1390	kg/m ³	ISO 1183

