

Akulon® Ultraflow XG-FKGS6

PA6-GF30 FR(40)

30% Glass Reinforced, Flame Retardant (halogen free)

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	0.6 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	11500 / 7500	MPa	ISO 527-1/-2
Stress at break	140 / 90	MPa	ISO 527-1/-2
Strain at break	2.7 / 4	%	ISO 527-1/-2
Flexural modulus	11200 / 7850	MPa	ISO 178
Flexural strength	230 / 160	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / 45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9.5 / 9	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Temp. of deflection under load (1.80 MPa)	205 / *	°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 0.75 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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Properties	Typical Data	Unit	Test Method
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	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.6 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1 / -	mm	IEC 60695-2-13

Electrical properties

dry / cond

Electric strength	40 / -	kV/mm	IEC 60243-1
Comparative tracking index	* / 600	V	IEC 60112

Other properties

dry / cond

Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m ³	ISO 1183

