

# Akulon® XG-FKGS6

## PA6-GF30 FR(40)

30% Glass Reinforced, Flame Retardant (halogen free)

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	0.6 / *	%	Sim. to ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
Tensile modulus	11500 / 7100	MPa	ISO 527-1/-2
Stress at break	135 / 85	MPa	ISO 527-1/-2
Strain at break	2 / 3.7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
	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	1.6 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	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	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

Property Data

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Properties	Typical Data	Unit	Test Method
GWIT (Thickness (2) tested)	1 / -	mm	IEC 60695-2-13
<b>Electrical properties</b>	<b>dry / cond</b>		
Comparative tracking index	* / 600	V	IEC 60112
<b>Other properties</b>	<b>dry / cond</b>		
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m <sup>3</sup>	ISO 1183