

Akulon® GA-XLGo

PA6/Semi-aromatic polymer-GF50

50% Glass Reinforced, UV Stabilized

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Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.15 / *	%	ISO 294-4
Molding shrinkage (normal)	0.3 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	16500 / 12500	MPa	ISO 527-1/-2
Stress at break	220 / 165	MPa	ISO 527-1/-2
Strain at break	2.5 / 5	%	ISO 527-1/-2
Flexural modulus	14500 / 12000	MPa	ISO 178
Flexural strength	335 / 275	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m ²	ISO 179/1eA
Thermal properties dry / cond			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.15 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Electrical properties dry / cond			
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093

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Properties	Typical Data	Unit	Test Method
Electric strength	23 / 21	kV/mm	IEC 60243-1
Comparative tracking index	450 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m ³	ISO 1183

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