

# Akulon<sup>®</sup> GA—XLG6

## PA6/Semi—aromatic polymer—GF30

30% Glass Fiber Reinforced, UV Stabilized

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	DRY / COND		
Tensile modulus	9600 / 6500	MPa	ISO 527–1/–2
Stress at break	170 / 115	MPa	ISO 527–1/–2
Strain at break	3 / 7	%	ISO 527–1/–2
Flexural modulus	8500 / 5500	MPa	ISO 178
Flexural strength	270 / 175	MPa	ISO 178
Charpy impact strength (+23°C)	65 / 85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	196 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	216 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
<b>OTHER PROPERTIES</b>			
	DRY / COND		
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m <sup>3</sup>	ISO 1183

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