

Akulon® 6-G6

PA6-GF30

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.3/*	%	ISO 294-4
Molding shrinkage (normal)	0.9/*	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	9000/6000	MPa	ISO 527-1/-2
Stress at break	140/80	MPa	ISO 527-1/-2
Strain at break	2/4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	60/-	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9/-	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7/-	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 (0.45 MPa)	220/*	°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
Other properties			
	dry / cond		
Water absorption	6.3/*	%	Sim. to ISO 62
Humidity absorption	1.9/*	%	Sim. to ISO 62
Density	1350/-	kg/m ³	ISO 1183

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