

Akulon® Ultraflow K-FG12

PA6-GF60

60% Glass Reinforced, High Flow

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	20000 / 14000	MPa	ISO 527-1/-2
Stress at break	235 / 160	MPa	ISO 527-1/-2
Strain at break	2.2 / 4	%	ISO 527-1/-2
Flexural modulus	19500 / -	MPa	ISO 178
Flexural strength	365 / -	MPa	ISO 178
Charpy impact strength (+23°C)	90 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	85 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 25	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)	210 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4 / *	E-4/°C	ISO 11359-1/-2
Other properties	dry / cond		
Water absorption	3.6 / *	%	Sim. to ISO 62



Property Data

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Humidity absorption	1 / *	%	Sim. to ISO 62
Density	1700 / -	kg/m ³	ISO 1183

