

Akulon® Ultraflow K-FKG3

PA6-GF15

15% Glass Reinforced, High Flow

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	5800 / 3400	MPa	ISO 527-1/-2
Stress at break	110 / 65	MPa	ISO 527-1/-2
Strain at break	3 / 8.5	%	ISO 527-1/-2
Flexural modulus	4500 / -	MPa	ISO 178
Flexural strength	160 / -	MPa	ISO 178
Charpy impact strength (+23°C)	30 / 40	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	25 / 25	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / 5	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 15	kJ/m ²	ISO 180/1A
Thermal properties dry / cond			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	195 / *	°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)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2

Other properties dry / cond

Property Data

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Properties	Typical Data	Unit	Test Method
Water absorption	7.6 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1230 / -	kg/m ³	ISO 1183