

# Akulon® Ultraflow K-FKG8

## PA6-GF40

40% Glass Reinforced, High Flow, Heat Stabilized

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
Tensile modulus	12500 / 8500	MPa	ISO 527-1/-2
Stress at break	195 / 135	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Flexural modulus	11300 / -	MPa	ISO 178
Flexural strength	275 / -	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / 24	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
	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)	0.15 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
<b>Other properties</b>			
	dry / cond		
Water absorption	5.3 / *	%	Sim. to ISO 62

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1450 / -	kg/m <sup>3</sup>	ISO 1183