

# Akulon<sup>®</sup> Ultraflow<sup>®</sup> K-FG12

## Property Data

PA6-GF60

60% Glass Reinforced, High Flow

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
	dry / cond		
Molding shrinkage (parallel)	<b>0.2 / *</b>	%	ISO 294-4
Molding shrinkage (normal)	<b>0.8 / *</b>	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	dry / cond		
Tensile modulus	<b>20000 / 14000</b>	MPa	ISO 527-1/-2
Stress at break	<b>235 / 160</b>	MPa	ISO 527-1/-2
Strain at break	<b>2.2 / 4</b>	%	ISO 527-1/-2
Flexural modulus	<b>16500 / -</b>	MPa	ISO 178
Flexural strength	<b>340 / -</b>	MPa	ISO 178
Charpy impact strength (+23°C)	<b>90 / 100</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>85 / 85</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>15 / 25</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>12 / 12</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	dry / cond		
Melting temperature (10°C/min)	<b>220 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>210 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	<b>220 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>0.1 / *</b>	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>0.4 / *</b>	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6 / *</b>	mm	IEC 60695-11-10
<b>OTHER PROPERTIES</b>			
	dry / cond		
Water absorption	<b>3.6 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>1 / *</b>	%	Sim. to ISO 62
Density	<b>1660 / -</b>	kg/m <sup>3</sup>	ISO 1183

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