

Akulon® Fuel Lock FL-LP

PA6

Low fuel permeation PA6 suitable for use in injection molding/welding of small engine fuel tanks, UV Stabilized

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Properties	Typical Data	Unit	Test Method
Mechanical properties			
	<i>dry / cond</i>		
Tensile modulus	1800/-	MPa	ISO 527-1/-2
Yield stress	50/-	MPa	ISO 527-1/-2
Yield strain	4/-	%	ISO 527-1/-2
Nominal strain at break	>50/-	%	ISO 527-1/-2
Flexural modulus	1600/-	MPa	ISO 178
Flexural strength	65/-	MPa	ISO 178
Charpy impact strength (+23°C)	N/N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N/N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	65/75	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	18/25	kJ/m ²	ISO 179/1eA
Thermal properties			
	<i>dry / cond</i>		
Temp. of deflection under load (1.80 MPa)	50/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	130/*	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.2/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2/*	E-4/°C	ISO 11359-1/-2
Other properties			
	<i>dry / cond</i>		
Water absorption	7/*	%	Sim. to ISO 62
Humidity absorption	2.5/*	%	Sim. to ISO 62
Density	1070/-	kg/m ³	ISO 1183

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