

Akulon® Fuel Lock FL-LP

PA6

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

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	1800 / -	MPa	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Yield stress	50 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	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			
	dry / cond		
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			
	dry / cond		
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m ³	ISO 1183

