This datasheet of **Akulon® Fuel Lock FL-LP** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® Fuel Lock FL-LP | PA6 | Envalior

Product Texts

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

ISO 1043 PA6

Mechanical properties	dry / cond	Unit
Tensile modulus	**1800 / -**	MPa
Yield stress	**50 / -**	MPa
Yield strain	**4 / -**	%
Nominal strain at break	**>50 / -**	%
Charpy impact strength, +23°C	**N / N**	kJ/m²
Charpy impact strength, -30°C	**N / N**	kJ/m²
Charpy notched impact strength, +23°C	**65 / 75**	kJ/m²
Charpy notched impact strength, -30°C	**18 / 25**	kJ/m²
Puncture - maximum force, +23°C	**3600 / -**	N
Puncture energy, +23°C	**50 / -**	J

Thermal properties	dry / cond	Unit
Temp. of deflection under load, 1.80 MPa	**50 / ***	°C
Temp. of deflection under load, 0.45 MPa	**130 / ***	°C
Coeff. of linear therm. expansion, parallel	**120 / ***	E-6/K
Coeff. of linear therm. expansion, normal	**120 / ***	E-6/K

Other properties	dry / cond	Unit
Water absorption	**7 / ***	%

Humidity absorption	**2.5 / ***	%
Density	**1070 / -**	kg/m³

Rheological calculation properties	**Value**	**Unit**
Density of melt	**869**	kg/m³
Thermal conductivity of melt	**0.22**	W/(m K)
Spec. heat capacity melt	**2740**	J/(kg K)
Eff. thermal diffusivity	**9.37E-8**	m²/s

Characteristics

Processing
Injection Molding, Film Extrusion, Blow Molding
Delivery form
Pellets
Special Characteristics
U.V. stabilized or stable to weather
Regional Availability
North America

Other text information

Injection molding

Injection Molding Recommendations
Steel recommendations for molds screws and barrels
Trouble shooting guideline for injection molding

Film extrusion

Processing of Akulon® Film Grades

Blow molding

Akulon® Fuel Lock Recommendations for Blow Moulding

Chemical Media Resistance

Alcohols

Methanol (23°C)

Ethanol (23°C)

Hydrocarbons

Toluene (23°C)

Ketones

Acetone (23°C)

Ethers

Diethyl ether (23°C)

Other

Ethyl Acetate (23°C)

Water (23°C)