



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 / *	%

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Humidity absorption	2.5 / *	%
Density	1070 / -	kg/m ³
Rheological calculation properties		
	Value	Unit
Density of melt	869	kg/m ³
Thermal conductivity of melt	0.22	W/(m K)
Spec. heat capacity melt	2740	J/(kg K)
Eff. thermal diffusivity	9.37E-8	m ² /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)

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