This datasheet of **Akulon® Fuel Lock FLE-LP NA99001** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® Fuel Lock FLE-LP NA99001 | PA6-I | Envalior

Product Texts

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

ISO 1043 PA6-I

Rheological properties	dry / cond	Unit
Melt volume-flow rate, MVR	**13 / ***	cm³/10min
Temperature	**250 / ***	°C
Load	**2.16 / ***	kg
Molding shrinkage, parallel	**1.9 / ***	%
Molding shrinkage, normal	**1.8 / ***	%

Mechanical properties	dry / cond	Unit
Tensile modulus	**1750 / 530**	MPa
Yield stress	**43 / -**	MPa
Yield strain	**4.2 / -**	%
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	**80 / N**	kJ/m²
Charpy notched impact strength, -30°C	**22 / 20**	kJ/m²
Puncture - maximum force, +23°C	**3300 / -**	N
Puncture energy, +23°C	**48 / -**	J

Thermal properties	dry / cond	Unit
Temp. of deflection under load, 1.80 MPa	**55 / ***	°C
Temp. of deflection under load, 0.45 MPa	**100 / ***	°C
Vicat softening temperature, 50°C/h 50N	**130 / ***	°C

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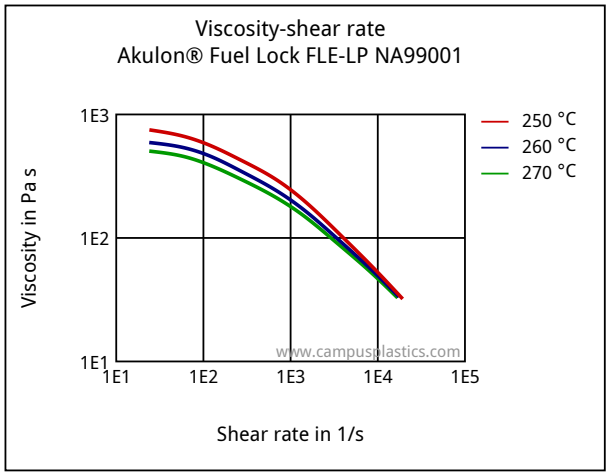
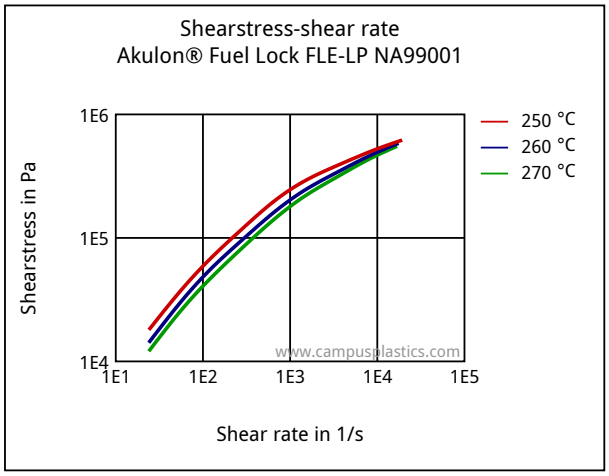
Coeff. of linear therm. expansion, parallel	**100 / ***	E-6/K
Coeff. of linear therm. expansion, normal	**110 / ***	E-6/K

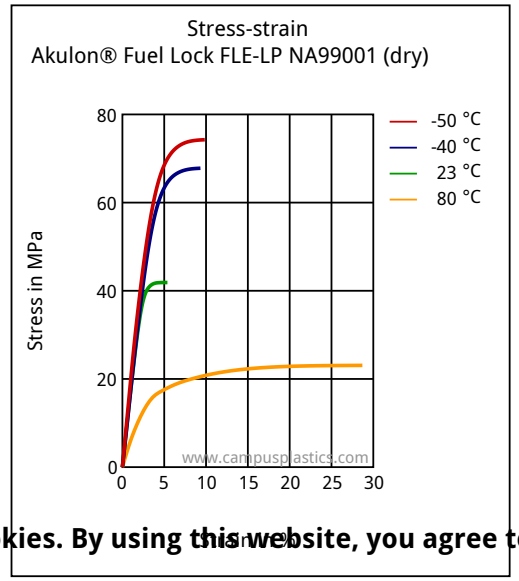
Other properties	**dry / cond**	**Unit**
Water absorption	**7 / ***	%
Humidity absorption	**2.5 / ***	%
Density	**1060 / -**	kg/m³

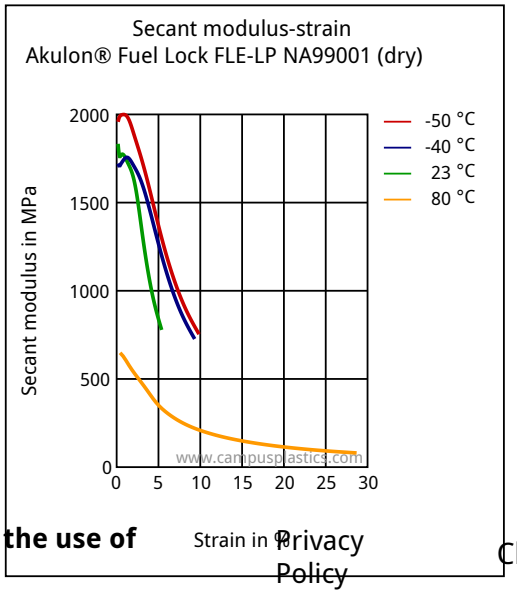
Rheological calculation properties	**Value**	**Unit**
Density of melt	**869**	kg/m³
Thermal conductivity of melt	**0.22**	W/(m K)
Spec. heat capacity melt	**2740**	J/(kg K)
Eff. thermal diffusivity	**9.37E-8**	m²/s

Diagrams









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Characteristics

Processing
Injection Molding
Delivery form
Pellets
Regional Availability
North America, Europe, Asia Pacific

Other text information

Injection molding

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

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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