



This datasheet of **Akulon® Fuel Lock FLE-LP BK29011** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® Fuel Lock FLE-LP BK29011 | 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 / *	cm ³ /10min
Temperature	250 / *	°C
Load	2.16 / *	kg
Molding shrinkage, parallel	2.1 / *	%
Molding shrinkage, normal	1.9 / *	%

Mechanical properties

	dry / cond	Unit
Tensile modulus	1750 / 560	MPa
Yield stress	43 / -	MPa
Yield strain	4.2 / -	%
Nominal strain at break	>50 / -	%
Charpy impact strength, +23°C	N / N	kJ/m ²
Charpy impact strength, -30°C	N / N	kJ/m ²
Charpy notched impact strength, +23°C	90 / N	kJ/m ²
Charpy notched impact strength, -30°C	20 / 20	kJ/m ²
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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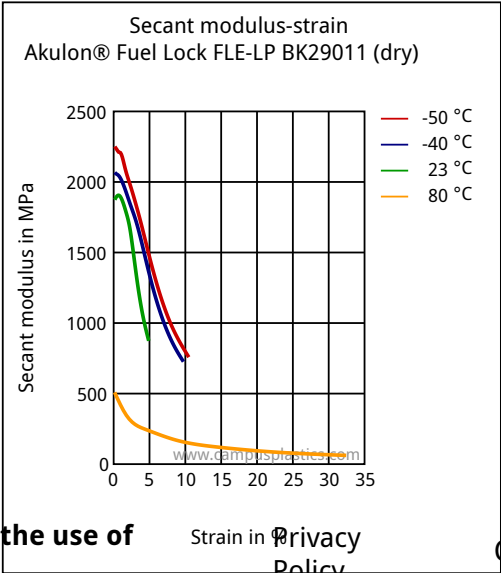
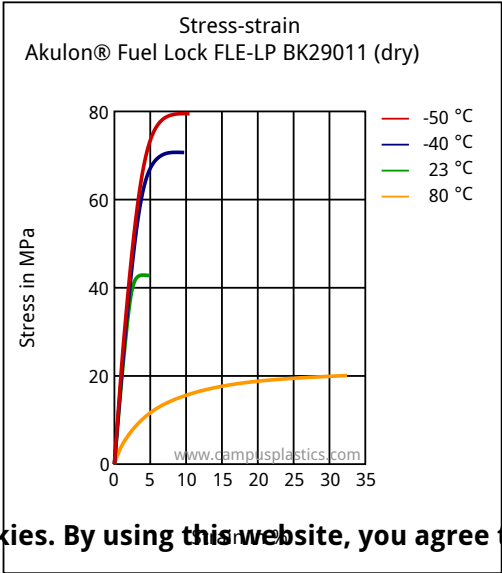
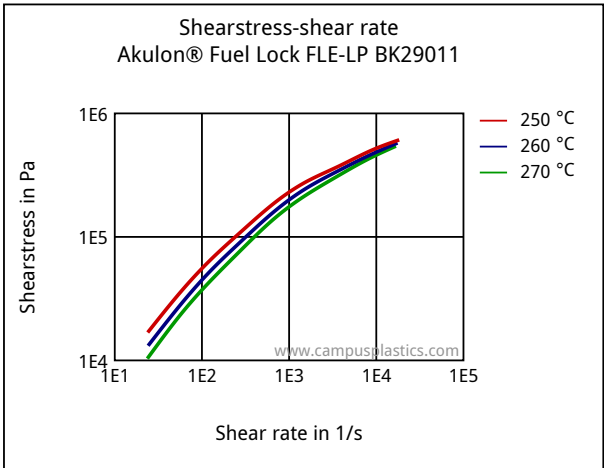
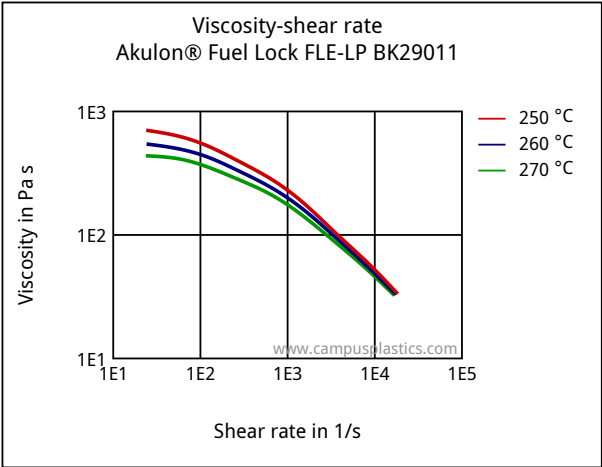
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Coeff. of linear therm. expansion, parallel	110 / *	E-6/K
Coeff. of linear therm. expansion, normal	120 / *	E-6/K

Other properties	dry / cond	Unit
Water absorption	7 / *	%
Humidity absorption	2.5 / *	%
Density	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



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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