



This datasheet of **Akulon® Fuel Lock FL40-HPX1 NA9900** from **Envalior** is provided by the international plastics database **CAMPUS**.

Akulon® Fuel Lock FL40-HPX1 NA9900 | PA6-I | Envalior

Rheological properties	dry / cond	Unit
Melt volume-flow rate, MVR	60 / *	cm ³ /10min
Temperature	275 / *	°C
Load	21.6 / *	kg
Molding shrinkage, parallel	1.6 / *	%
Molding shrinkage, normal	1.5 / *	%

Mechanical properties	dry / cond	Unit
Tensile modulus	2200 / 620	MPa
Yield stress	62 / 32	MPa
Yield strain	4.2 / 33	%
Nominal strain at break	>50 / >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	60 / N	kJ/m ²
Charpy notched impact strength, -30°C	17 / 15	kJ/m ²
Puncture - maximum force, +23°C	4000 / -	N
Puncture - maximum force, -30°C	5600 / -	N
Puncture energy, +23°C	50 / -	J
Puncture energy, -30°C	64 / -	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

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Vicat softening temperature, 50°C/h 50N	155 / *	°C
Coeff. of linear therm. expansion, parallel	150 / *	E-6/K
Coeff. of linear therm. expansion, normal	100 / *	E-6/K

Other properties	dry / cond	Unit
Water absorption	7.4 / *	%
Humidity absorption	2.9 / *	%
Density	1070 / -	kg/m ³

Test specimen production	Value	Unit
Processing conditions acc. ISO	1874	-
Injection molding, melt temperature	280	°C
Injection molding, mold temperature	80	°C
Injection molding, injection velocity	200	mm/s

Characteristics

Processing

Blow Molding

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

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