

Akulon[®] Fuel Lock FLE–LP NA99001

PA6–I

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

Print Date: 2024–03–27

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1.9 / *	%	ISO 294–4
Molding shrinkage (normal)	1.8 / *	%	ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Tensile modulus	1750 / 530	MPa	ISO 527–1/–2
Stress at break	37 / –	MPa	ISO 527–1/–2
Nominal strain at break	>50 / >50	%	ISO 527–1/–2
Yield stress	43 / –	MPa	ISO 527–1/–2
Yield strain	4.2 / –	%	ISO 527–1/–2
Flexural modulus	1700 / 500	MPa	ISO 178
Flexural strength	63 / 20	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	80 / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	22 / 20	kJ/m ²	ISO 179/1eA
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Temp. of deflection under load (1.80 MPa)	55 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	100 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	1 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.1 / *	E–4/°C	ISO 11359–1/–2
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1060 / –	kg/m ³	ISO 1183

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