

Durethan® FLE-LP 000000

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: 2026-04-09

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	1.9 / *	%	ISO 294-4
Molding shrinkage (normal)	1.8 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
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
THERMAL PROPERTIES			
	DRY / COND		
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
OTHER PROPERTIES			
	DRY / COND		

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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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