

# Akulon<sup>®</sup> Fuel Lock FL40–HPX1 NA99001

## PA6–I

Low fuel permeation PA6 suitable for use in blow molding

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		DRY / COND	
Molding shrinkage (parallel)	1.6 / *	%	ISO 294–4
Molding shrinkage (normal)	1.5 / *	%	ISO 294–4
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	2200 / 620	MPa	ISO 527–1/–2
Stress at break	47 / –	MPa	ISO 527–1/–2
Nominal strain at break	>50 / >50	%	ISO 527–1/–2
Yield stress	62 / 32	MPa	ISO 527–1/–2
Yield strain	4.2 / 33	%	ISO 527–1/–2
Flexural modulus	2100 / 550	MPa	ISO 178
Flexural strength	77 / 23	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	60 / N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	17 / 15	kJ/m²	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)	1.5 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES		DRY / COND	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Water absorption	7.4 / *	%	Sim. to ISO 62
Humidity absorption	2.9 / *	%	Sim. to ISO 62
Density	1070 / –	kg/m³	ISO 1183

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