

Akulon® Fuel Lock FL40-HPX2 BK00002

PA6-I

Low fuel permeation PA6 suitable for use in blow molding

Print Date: 2019-10-16

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	2100 / 550	MPa	ISO 527-1/-2
Stress at break	46 / -	MPa	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Yield stress	58 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Flexural modulus	2000 / 520	MPa	ISO 178
Flexural strength	75 / 22	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)	90 / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	22 / 21	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)	1.5 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2

Other properties

dry / cond

Property Data (Provisional)

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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	1080 / -	kg/m ³	ISO 1183