Akulon®

Akulon® Fuel Lock FLE-LP BK29011

PA6-I

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

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	2.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.9 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	1750 / 560	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 / 560	MPa	ISO 178
Flexural strength	63 / 22	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)	90 / N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	20 / 20	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)	1.1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2 / *	E-4/°C	ISO 11359-1/-2
Other properties	dry / cond		

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Property Data

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Properties	Typical Data	Unit	Test Method
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1060 / -	kg/m³	ISO 1183

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