

DSM Akulon® Fuel Lock FL-LP PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-Fuel-Lock-FL-LP-PA6.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	dry; ISO 1183
Water Absorption	7.0 %	7.0 %	Sim. To ISO 62
Moisture Absorption	2.50 %	2.50 %	Sim. To ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
Tensile Modulus	1.80 GPa	261 ksi	dry; ISO 527-1/-2
Flexural Strength	65.0 MPa	9430 psi	dry; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	6.50 J/cm ² Metric	30.9 ft-lb/in ² English	Comments 9/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	dry; ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	dry; ISO 75-1/-2

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