

Product Texts

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

ISO 1043 PA6

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	869	kg/m ³	-
^[C] Thermal conductivity of melt	0.22	W/(m K)	-
^[C] Spec. heat capacity of melt	2740	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.37E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1800 / -	MPa	ISO 527
^[C] Yield stress	50 / -	MPa	ISO 527
^[C] Yield strain	4 / -	%	ISO 527
^[C] Nominal strain at break	>50 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	65 / 75	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	18 / 25	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, +23°C	3600 / -	N	ISO 6603-2
^[C] Puncture energy, +23°C	50 / -	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	50 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	120 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	120 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.5 / *	%	Sim. to ISO 62
^[C] Density	1070 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Film Extrusion, Blow Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

U.V. stabilized or stable to weather

Features

Weldable

Regional Availability

North America

Other text information**Injection molding**

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)

Film extrusion

[Processing of Akulon® Film Grades](#)

Blow molding

[Akulon® Fuel Lock Recommendations for Blow Moulding](#)