

**Product Texts**

Low/Medium Viscosity

ISO 1043 PA6

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	960	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.23	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2680	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	8.82E-8	m <sup>2</sup> /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	3200 / 1000	MPa	ISO 527
<sup>[C]</sup> Yield stress	87 / 45	MPa	ISO 527
<sup>[C]</sup> Yield strain	4 / 25	%	ISO 527
<sup>[C]</sup> Nominal strain at break	20 / >50	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	5 / 35	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	3 / 5	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	150 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Oxygen index	26 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3.4 / 15	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3.1 / 4.7	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	65 / 3900	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	165 / 1300	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	30 / 20	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	* / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	10 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	2.8 / *	%	Sim. to ISO 62

**Akulon® F-X9190**

PA6

Envalior

<sup>[C]</sup> Density	1130 / -	kg/m <sup>3</sup>	ISO 1183
<sup>[C]</sup> : CAMPUS			

**Material specific properties****ISO Data**

	dry / cond	Unit	Test Standard
<sup>[C]</sup> Viscosity number	129 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

<sup>[C]</sup>: CAMPUS**Characteristics****Processing**

Injection Molding

**Additives**

Release agent

**Delivery form**

Pellets

**Regional Availability**

Asia Pacific

**Other text information****Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)