

**Product Texts**

Product-nomenclature: ISO 16396-PA6I/6T,,FT,S09-030

Co Polyamide

Partially aromatic Polyamide

**Product Attributes**

Highly transparent, Barrier material, Improved UV resistance (outdoor use)

**Markets****Packaging**

Paper coating, Cosmetics / Personal care

**Approvals****Food Contact**

EU Requirements, FDA

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>100 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>275 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-
<sup>[C]</sup> Density of melt	<b>1100</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	<b>0.21</b>	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	<b>2000</b>	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	<b>9.55E-8</b>	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	<b>120</b>	°C	-

[C]: CAMPUS

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>3000 / 3000</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>100 / 100</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>5 / 5</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>&gt;50 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>8 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>8 / 2</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Glass transition temperature, 10°C/min	<b>125 / *</b>	°C	ISO 11357-1/-2

[C]: CAMPUS

<b>Optical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Gloss, 60°	<b>160 / *</b>	-	ISO 2813

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>7 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>2 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1180 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Film Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Stress at yield, parallel	85 / *	MPa	ISO 527-3
<sup>[C]</sup> Stress at yield, normal	85 / *	MPa	ISO 527-3
<sup>[C]</sup> Strain at yield, parallel	5 / *	%	ISO 527-3
<sup>[C]</sup> Strain at yield, normal	5 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, parallel	200 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, normal	200 / *	%	ISO 527-3
<sup>[C]</sup> Elmendorf Tear resistance, parallel	10 / *	N	ISO 6383-2
<sup>[C]</sup> Elmendorf Tear resistance, normal	10 / *	N	ISO 6383-2
<sup>[C]</sup> Trouser Tear resistance, parallel	5 / *	N/mm	ISO 6383-1
<sup>[C]</sup> Trouser Tear resistance, normal	5 / *	N/mm	ISO 6383-1
<sup>[C]</sup> WVTR, 23°C/85%r.h.	7 / *	g/(m <sup>2</sup> *d)	ISO 15106-1/-2
<sup>[C]</sup> Oxygen transmission rate, 23°C/0%r.h.	30 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
<sup>[C]</sup> Oxygen transmission rate, 23°C/85%r.h.	10 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
<sup>[C]</sup> Carbon Dioxide transm. rate, 23°C/0%r.h.	90 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
<sup>[C]</sup> Carbon Dioxide transm. rate, 23°C/85%r.h.	40 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Film Extrusion, Coating, Blow Molding

**Certifications**

Food contact, Food approval FDA 21 CFR

**Delivery form**

Granules, Natural Color

**Applications**

Packaging

**Special Characteristics**

U.V. stabilized or stable to weather, Transparent

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Features**

Barrier Properties, Copolymer