

**Product Texts**

Product-nomenclature: ISO 16396-PA6/12,,FT,C16-007

Co Polyamide

**Product Attributes**

Highly flexible, High viscosity, Highly transparent, Barrier material

**Markets**

**Packaging**  
Oriented film

**Approvals**

**Food Contact**  
EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	180 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
<sup>[C]</sup> Density of melt	890	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.22	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2600	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	9.51E-8	m <sup>2</sup> /s	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	130 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

Optical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Gloss, 60°	130 / *	-	ISO 2813

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	2 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1050 / -	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	30 / *	MPa	ISO 527-3
<sup>[C]</sup> Stress at yield, normal	28 / *	MPa	ISO 527-3
<sup>[C]</sup> Strain at yield, parallel	15 / *	%	ISO 527-3
<sup>[C]</sup> Strain at yield, normal	8 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, parallel	800 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, normal	900 / *	%	ISO 527-3
<sup>[C]</sup> Elmendorf Tear resistance, parallel	80 / *	N	ISO 6383-2
<sup>[C]</sup> Elmendorf Tear resistance, normal	80 / *	N	ISO 6383-2
<sup>[C]</sup> Trouser Tear resistance, parallel	65 / *	N/mm	ISO 6383-1
<sup>[C]</sup> Trouser Tear resistance, normal	65 / *	N/mm	ISO 6383-1
<sup>[C]</sup> WVTR, 23°C/85%r.h.	15 / *	g/(m <sup>2</sup> *d)	ISO 15106-1/-2
<sup>[C]</sup> Oxygen transmission rate, 23°C/0%r.h.	120 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2

## Grilon CF 6 S natural

PA612

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Oxygen transmission rate, 23°C/85%r.h.	200 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/0%r.h.	400 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/85%r.h.	800 / *	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2

[C]: CAMPUS

### Characteristics

#### Processing

Film Extrusion, Other Extrusion, Thermoforming

#### Delivery form

Granules, Natural Color

#### Special Characteristics

Transparent

#### Features

Barrier Properties, Copolymer

#### Certifications

Food contact, Food approval FDA 21 CFR

#### Applications

Packaging

#### Regional Availability

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

### Other text information

#### Film extrusion

PREPROCESSING

Max. water content : <= 0.1 %

PROCESSING

Melt temperature : 170-180 °C

Smooth or roughened feeding zone : 20-40 °C

Barrel temp. profile : 160-170 °C

Head temp. : 160-170 °C

Please consider the information about the application of the materials.