

**Product Texts**

Product-nomenclature: ISO 16396-PA12,,E,C24-010

**Product Attributes**

High viscosity, Improved flowability and demoulding, Improved heat resistance

**Markets**

**Packaging**

Non 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	20 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	- / 1100	MPa	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	- / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	- / 7	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	178 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

Optical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Gloss, 60°	150 / *	-	ISO 2813

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	1.5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.7 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1010 / -	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	35 / *	MPa	ISO 527-3
<sup>[C]</sup> Stress at yield, normal	35 / *	MPa	ISO 527-3
<sup>[C]</sup> Strain at yield, parallel	6 / *	%	ISO 527-3
<sup>[C]</sup> Strain at yield, normal	6 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, parallel	850 / *	%	ISO 527-3
<sup>[C]</sup> Maximum strain, normal	900 / *	%	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	20 / *	N/mm	ISO 6383-1
<sup>[C]</sup> Trouser Tear resistance, normal	25 / *	N/mm	ISO 6383-1
<sup>[C]</sup> WVTR, 23°C/85%r.h.	8 / *	g/(m <sup>2</sup> *d)	ISO 15106-1/-2

## Grilamid L 25 G natural 6011

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Oxygen transmission rate, 23°C/0%r.h.	<b>350 / *</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
[C] Oxygen transmission rate, 23°C/85%r.h.	<b>370 / *</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/0%r.h.	<b>1500 / *</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/85%r.h.	<b>1600 / *</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2

[C]: CAMPUS

### Characteristics

#### Processing

Film Extrusion, Other Extrusion

#### Delivery form

Granules, Natural Color

#### Additives

Lubricants

#### Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

#### Certifications

Food contact, Food approval FDA 21 CFR

#### Applications

Packaging

#### Regional Availability

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