

Product Texts

Product nomenclature: ISO 16396-PA6,,FS,S27-030N

Product Attributes

High viscosity, Highly transparent, Barrier material, Nucleated

Markets

Packaging

Non oriented film, Oriented film, Paper coating, Tubes

Approvals

Food Contact

EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	25 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
^[C] Density of melt	970	kg/m ³	-
^[C] Thermal conductivity of melt	0.22	W/(m K)	-
^[C] Spec. heat capacity of melt	2600	J/(kg K)	-
^[C] Eff. thermal diffusivity	8.72E-8	m ² /s	-
^[C] Ejection temperature	175	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 750	MPa	ISO 527

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

Optical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Gloss, 60°	100 / *	-	ISO 2813

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	9 / *	%	Sim. to ISO 62
^[C] Humidity absorption	3 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Film Properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Stress at yield, parallel	35 / *	MPa	ISO 527-3
^[C] Stress at yield, normal	30 / *	MPa	ISO 527-3
^[C] Strain at yield, parallel	15 / *	%	ISO 527-3
^[C] Strain at yield, normal	15 / *	%	ISO 527-3
^[C] Maximum strain, parallel	700 / *	%	ISO 527-3
^[C] Maximum strain, normal	700 / *	%	ISO 527-3
^[C] Elmendorf Tear resistance, parallel	10 / *	N	ISO 6383-2
^[C] Elmendorf Tear resistance, normal	10 / *	N	ISO 6383-2

Grilon F 40 NL natural 6041

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Trouser Tear resistance, parallel	30 / *	N/mm	ISO 6383-1
[C] Trouser Tear resistance, normal	30 / *	N/mm	ISO 6383-1
[C] Dynamic coefficient of friction	0.25 / *	-	ISO 8295
[C] WVTR, 23°C/85%r.h.	15 / *	g/(m ² *d)	ISO 15106-1/-2
[C] Oxygen transmission rate, 23°C/0%r.h.	25 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
[C] Oxygen transmission rate, 23°C/85%r.h.	50 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/0%r.h.	80 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/85%r.h.	250 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2

[C]: CAMPUS

Characteristics

Processing

Film Extrusion, Other Extrusion, Coating

Delivery form

Granules, Natural Color

Additives

Lubricants

Special Characteristics

Transparent

Features

Barrier Properties, Nucleated

Certifications

Food contact, Food approval FDA 21 CFR

Applications

Packaging

Regional Availability

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