

Product Texts

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

Product Attributes

High viscosity, Barrier material, Nucleated

Markets

Packaging

Non oriented film, Oriented film, Paper coating, Tubes, Medical packaging

Approvals

Food Contact

EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	20 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 1100	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	35 / *	MPa	ISO 527-3
^[C] Strain at yield, parallel	10 / *	%	ISO 527-3
^[C] Strain at yield, normal	7 / *	%	ISO 527-3
^[C] Maximum strain, parallel	600 / *	%	ISO 527-3
^[C] Maximum strain, normal	800 / *	%	ISO 527-3
^[C] Elmendorf Tear resistance, parallel	15 / *	N	ISO 6383-2
^[C] Elmendorf Tear resistance, normal	15 / *	N	ISO 6383-2
^[C] Trouser Tear resistance, parallel	50 / *	N/mm	ISO 6383-1
^[C] Trouser Tear resistance, normal	50 / *	N/mm	ISO 6383-1
^[C] Dynamic coefficient of friction	0.25 / *	-	ISO 8295
^[C] WVTR, 23°C/85%r.h.	10 / *	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

Grilon FG 40 NL natural 6021

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Oxygen transmission rate, 23°C/85%r.h.	45 / *	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.	220 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2

[C]: CAMPUS

Characteristics

Processing

Film Extrusion, Other Extrusion, Coating, Thermoforming

Certifications

Food contact, Food approval FDA 21 CFR

Delivery form

Granules, Natural Color

Applications

Medical, Packaging

Features

Barrier Properties, Nucleated

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 : 240-270 °C

Smooth or roughened feeding zone : 40-80 °C

Barrel temp. profile : 240-260 °C

Head temp. : 260 °C

Please consider the information about the application of the materials.