

Product Texts

Product-nomenclature: ISO 16396-PA66/610,,FT,S18-030

Co Polyamide

Transparent Polyamide

Product Attributes

Highly flexible, High viscosity, Highly transparent, Barrier material

Markets

Packaging

Non oriented film, Oriented film, Paper coating

Approvals

Food Contact

EU Requirements, FDA

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	40 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
^[C] Density of melt	930	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	9.1E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 650	MPa	ISO 527

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	200 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

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

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	6 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.5 / *	%	Sim. to ISO 62
^[C] Density	1090 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Film Properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Stress at yield, parallel	30 / *	MPa	ISO 527-3
^[C] Stress at yield, normal	28 / *	MPa	ISO 527-3

Grilon BM 20 SBG natural

PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

^[C] Strain at yield, parallel	10 / *	%	ISO 527-3
^[C] Strain at yield, normal	10 / *	%	ISO 527-3
^[C] Maximum strain, parallel	900 / *	%	ISO 527-3
^[C] Maximum strain, normal	900 / *	%	ISO 527-3
^[C] Elmendorf Tear resistance, parallel	20 / *	N	ISO 6383-2
^[C] Elmendorf Tear resistance, normal	20 / *	N	ISO 6383-2
^[C] Trouser Tear resistance, parallel	50 / *	N/mm	ISO 6383-1
^[C] Trouser Tear resistance, normal	75 / *	N/mm	ISO 6383-1
^[C] WVTR, 23°C/85%r.h.	20 / *	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.	70 / *	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, 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 : 240-270 °C

Smooth or roughened feeding zone : 40-80 °C

Barrel temp. profile : 230-250 °C

Head temp. : 250 °C

Please consider the information about the application of the materials.