Product Texts

Product-nomenclature: ISO 16396-PA6I/6T,,FT,C11-030

Co Polyamide

Partially aromatic Polyamide

Product Attributes

Highly transparent, Barrier material, Improved UV resistance (outdoor use)

Markets

Packaging
Blow moulded containers, Injectionstretchblowmoulded containers, Non oriented film, Oriented film,
Paper coating, Tubes, Cosmetics / Personal care

Approvals

Food Contact
EU Requirements, FDA
Medical
USP VI
Potable Water Contact
NSF 61

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**25 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
[C] Density of melt	**1100**	kg/m³	-
[C] Thermal conductivity of melt	**0.21**	W/(m K)	-
[C] Spec. heat capacity of melt	**2000**	J/(kg K)	-
[C] Eff. thermal diffusivity	**9.55E-8**	m²/s	-
[C] Ejection temperature	**120**	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**3000 / 3000**	MPa	ISO 527
[C] Yield stress	**100 / 100**	MPa	ISO 527
[C] Yield strain	**5 / 5**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**8 / 8**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**8 / 2**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**125 / ***	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**125 / ***	°C	ISO 11357-1/-2

[C]: CAMPUS

Optical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Gloss, 60°	**160 / ***	-	ISO 2813

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**7 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**2 / ***	%	Sim. to ISO 62
[C] Density	**1180 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Film Properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Stress at yield, parallel	**85 / ***	MPa	ISO 527-3
[C] Stress at yield, normal	**85 / ***	MPa	ISO 527-3
[C] Strain at yield, parallel	**5 / ***	%	ISO 527-3
[C] Strain at yield, normal	**5 / ***	%	ISO 527-3
[C] Maximum strain, parallel	**300 / ***	%	ISO 527-3
[C] Maximum strain, normal	**300 / ***	%	ISO 527-3
[C] Elmendorf Tear resistance, parallel	**10 / ***	N	ISO 6383-2
[C] Elmendorf Tear resistance, normal	**10 / ***	N	ISO 6383-2
[C] Trouser Tear resistance, parallel	**5 / ***	N/mm	ISO 6383-1
[C] Trouser Tear resistance, normal	**5 / ***	N/mm	ISO 6383-1
[C] WVTR, 23°C/85%r.h.	**7 / ***	g/(m²*d)	ISO 15106-1/-2
[C] Oxygen transmission rate, 23°C/0%r.h.	**30 / ***	cm³/(m²*d*bar)	ISO 15105-1/-2
[C] Oxygen transmission rate, 23°C/85%r.h.	**10 / ***	cm³/(m²*d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/0%r.h.	**90 / ***	cm³/(m²*d*bar)	ISO 15105-1/-2
[C] Carbon Dioxide transm. rate, 23°C/85%r.h.	**40 / ***	cm³/(m²*d*bar)	ISO 15105-1/-2

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**280**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**250**	mm/s	ISO 294
Injection Molding, pressure at hold	**75**	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Film Extrusion, Other Extrusion, Coating, Blow Molding

Delivery form
Granules, Natural Color

Special Characteristics
U.V. stabilized or stable to weather, Transparent

Features
Barrier Properties, Copolymer

Certifications
Food contact, Food approval FDA 21 CFR, Drinking water contact, Drinking water contact NSF 61, Medical Grade, US Pharmacopeia Class VI Approved

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 : 250-270 °C
Smooth or roughened feeding zone : 60-90 °C
Barrel temp. profile : 250-260 °C
Head temp. : 260-250 °C

Please consider the information about the application of the materials.