

Grivory® G 21

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® G 21 is a Polyamide 6I/6T Copolymer (Nylon 6I/6T) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding, blown film, cast film, extrusion, film extrusion, injection molding, or injection stretch blow molding.

Important attributes of Grivory® G 21 are:

- RoHS Compliant
- Food Contact Acceptable
- Typical applications include:
 - Film
 - Coating Applications
 - Food Contact Applications
 - Medical/Healthcare
 - Packaging

General Information	
Features	Aromatic
	Barrier Resin
	Food Contact Acceptable
Uses	Blow Molding Applications
	Blown Containers
	Cast Film
	Coating Applications
	Cosmetic Packaging
	Film
	Medical/Healthcare Applications
	Non-oriented Film
	Oriented Film
	Packaging
	Paper Coatings
	Tubing
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
	USP Class VI
RoHS Compliance	RoHS Compliant
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Blow Molding
	Blown Film

Cast Film

Extrusion

Film Extrusion

Injection Molding

Injection Stretch Blow Molding

Multi-Point Data		Isochronous Stress vs. Strain (ISO 11403-1) Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Specific Volume vs Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	3000	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	85.0	--	MPa	
TD : Yield	85.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	5.0	--	%	
TD : Yield	5.0	--	%	
MD : Break	300	--	%	
TD : Break	300	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	10	--	N	
TD	10	--	N	
Trouser Tear Resistance				ISO 6383-1
MD	5.00	--	N/mm	
TD	5.00	--	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	7.0	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate				DIS 15105-1/-2
23°C ¹	30	--	cm ³ /m ² /bar/24 hr	
23°C ²	10	--	cm ³ /m ² /bar/24 hr	

Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	90.0	--	cm³/m²/bar/24 hr	
23°C ⁴	40.0	--	cm³/m²/bar/24 hr	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	2.0	kJ/m²	
23°C	8.0	8.0	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Glass Transition Temperature ⁵	125	--	°C	ISO 11357-2
Optical	Dry	Conditioned		Test Method
Gloss (60°)	160	--		ISO 2813
NOTE				
1.	0% RH			
2.	85% RH			
3.	0% RH			
4.	85% RH			
5.	10°C/min			

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