

Grivory® G 25

Polyamide 6I/6T Copolymer

EMS-GRIVORY

Message:

Grivory® G 25 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, extrusion, or injection stretch blow molding.

Important attributes of Grivory® G 25 are:

- RoHS Compliant
- Food Contact Acceptable
- High Viscosity
- Typical applications include:
 - Food Contact Applications
 - Packaging
 - Containers
 - Hose/Tubing

General Information				
Features		Aromatic		
		Barrier Resin		
		Food Contact Acceptable		
		High Viscosity		
Uses		Blow Molding Applications		
		Blown Containers		
		Cosmetic Packaging		
		Packaging		
		Tubing		
Agency Ratings		EU Food Contact, Unspecified Rating		
		FDA Food Contact, Unspecified Rating		
RoHS Compliance		RoHS Compliant		
Appearance		Clear/Transparent		
Forms		Granules		
Processing Method		Blow Molding		
		Extrusion		
		Injection Stretch Blow Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	12.0	--	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	
MD : Break	85.0	--	MPa	
TD : Break	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	40.0	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	90.0	--	cm ³ /m ² /bar/24 hr	
ISO Type	PA 6I/6T, FT, 12-030	--		ISO 1874
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	2.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
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.	85% RH
4.	0% RH
5.	10°C/min

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