

Grivory® HB 5299 HV

Polyamide MXD6/MXDI Copolymer

EMS-GRIVORY

Message:

Grivory® HB 5299 HV is a Polyamide MXD6/MXDI Copolymer (Nylon MXD6/MXDI) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding, blown film, cast film, or injection stretch blow molding. Primary attribute of Grivory® HB 5299 HV: High Viscosity.

Typical applications include:

- Film
- Food Contact Applications
- Coating Applications
- Containers
- Hose/Tubing

General Information				
Features	Aromatic			
	Barrier Resin			
	High Viscosity			
Uses	Blow Molding Applications			
	Cast Film			
	Containers			
	Film			
	Medical Packaging			
	Oriented Film			
	Paper Coatings			
Agency Ratings	Tubing			
	EU Food Contact, Unspecified Rating			
Appearance	FDA Food Contact, Unspecified Rating			
	Clear/Transparent			
Forms	Granules			
Processing Method	Blow Molding			
	Blown Film			
	Cast Film			
	Injection Stretch Blow Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.21	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	30.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62

Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4000	--	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Break, 50 µm	110	--	MPa	
TD : Break, 50 µm	100	--	MPa	
Tensile Elongation				ISO 527-3
MD : Break, 50 µm	4.5	--	%	
TD : Break, 50 µm	3.5	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD : 50 µm	5.0	--	N	
TD : 50 µm	5.0	--	N	
Water Vapor Transmission Rate (23°C, 85% RH, 50 µm)	6.0	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Permeability				DIS 15105-1/-2
23°C, 50.0 µm ¹	4.0	--	cm ³ /m ² /bar/24 hr	
23°C, 50.0 µm ²	4.0	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C, 50.0 µm ³	15.0	--	cm ³ /m ² /bar/24 hr	
23°C, 50.0 µm ⁴	15.0	--	cm ³ /m ² /bar/24 hr	
ISO Type	PA MXD6/MXDI, FNST, 12-040 --			ISO 1874
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁵	218	--	°C	ISO 11357-3
Optical	Dry	Conditioned		Test Method
Gloss (60°, 50.0 µm)	150	--		ISO 2813
NOTE				
1.	85% RH			
2.	0% RH			
3.	0% RH			
4.	85% RH			
5.	10°C/min			

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