

Grivory® HB5299

Polyamide MXD6/MXDI Copolymer

EMS-GRIVORY

Message:

Grivory® HB5299 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, extrusion, film extrusion, or injection stretch blow molding.

Important attributes of Grivory® HB5299 are:

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

General Information	
Features	Aromatic
	Barrier Resin
	Food Contact Acceptable
	High Viscosity
Uses	Blow Molding Applications
	Blown Containers
	Cast Film
	Coating Applications
	Film
	Medical Packaging
	Non-oriented Film
	Oriented Film
	Packaging
	Paper Coatings
	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
	Blown Film
	Cast Film

Extrusion
Film Extrusion
Injection Stretch Blow Molding

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	50.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	5.5	%	
Equilibrium, 23°C, 50% RH	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD : Break	110	MPa	
TD : Break	100	MPa	
Tensile Elongation			ISO 527-3
MD : Break	4.5	%	
TD : Break	3.5	%	
Elmendorf Tear Strength			ISO 6383-2
MD	5.0	N	
TD	5.0	N	
Trouser Tear Resistance			ISO 6383-1
MD	10.0	N/mm	
TD	10.0	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	6.0	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate			DIS 15105-1/-2
23°C ¹	4.0	cm ³ /m ² /bar/24 hr	
23°C ²	4.0	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate			DIS 15105-1/-2
23°C ³	15.0	cm ³ /m ² /bar/24 hr	
23°C ⁴	15.0	cm ³ /m ² /bar/24 hr	
ISO Type	PA MXD6/MXDI, FNST, 12-040		ISO 1874
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁵	218	°C	ISO 11357-3
Optical	Nominal Value		Test Method
Gloss (60°)	150		ISO 2813
NOTE			
1.	0% RH		
2.	85% RH		
3.	85% RH		

4.	0% RH
5.	10°C/min

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