

EMS-Grivory Grivory® HB5299 PA*

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grivory HB 5299 is a lubricated, lactam free copolyamide, especially developed for high barrier (oxygen, carbon dioxide) packaging solutions. Excellent oxygen and carbon dioxide barrier, especially in interaction with moisture (50 up to 100% relative humidity)Excellent transparency, even for thicker ComponentsSuitable as a middle layer in multi-layer films and componentsSuitable for co-extruded and oriented multilayer films in conjunction with all polyamides, polyesters and polyolefins Barrier properties are not affected by steam sterilization (transparency gets lost) Application: Grivory HB 5299 is used in various multi layer structures providing high barrier (oxygen, carbon dioxide, nitrogen, ...), e.g. Co-extrusion blown and cast films.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-HB5299-PA.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Water Absorption	5.5 %	5.5 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Water Vapor Transmission	6.00 g/m ² /day	0.386 g/100 in ² /day	23°C/85%r.h.; DIS 15106-1/-2
Oxygen Transmission Rate	4.00 cc/m ² /day	0.258 cc/100 in ² /day	23°C/0%r.h.; DIS 15105-1/-2
	4.00 cc/m ² /day	0.258 cc/100 in ² /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	15.0 cc-mm/m ² -24hr-atm	38.1 cc-mil/100 in ² -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
	15.0 cc-mm/m ² -24hr-atm	38.1 cc-mil/100 in ² -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
Melt Flow	50 g/10 min	50 g/10 min	(MVR) [cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	4.5 %	4.5 %	ISO 527-3
Film Elongation at Break, TD	3.5 %	3.5 %	ISO 527-3
Tensile Modulus	4.00 GPa	580 ksi	dry; ISO 527-1/-2
	4.00 GPa	580 ksi	dry; ISO 527-1/-2
Tear Strength	10.0 kN/m	57.1 pli	Trouser Tear resistance MD; ISO 6383-1
	10.0 kN/m	57.1 pli	Trouser Tear resistance TD; ISO 6383-1

Elmendorf Tear Strength MD Mechanical Properties	510 g Metric	510 g English	ISO 6383-2 Comments
Elmendorf Tear Strength TD	510 g	510 g	ISO 6383-2
Film Tensile Strength at Break, MD	110 MPa	16000 psi	ISO 527-3
Film Tensile Strength at Break, TD	100 MPa	14500 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	10°C/min; ISO 11357-1/-3

Optical Properties	Metric	English	Comments
Gloss	150 %	150 %	60°; ISO 2813

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	
Form	Granules	
Packaging	Blow moulded containers	
	Injectionstretchblowmoulded containers	
	Medical packaging	
	Non oriented film	
	Oriented film	
	Paper coating	
	Tubes	
Processing	Blown Film Extrusion	
	Extrusion - blow molding	
	Film Extrusion	
	Other Extrusion	
Product Attributes	Barrier Properties	
	High viscosity	
	Partially aromatic Polyamide	
Special Characteristics	Transparent	

Descriptive Properties	Value	Comments
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