

EMS-Grivory Grivory® FG 40 NL nat 6021 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon FG 40 NL natural 6021 is a modified, high viscosity polyamide 6. As a result of the modification in comparison to conventional polyamide 6 Grilon FG40 NL natural 6021 offers the following improvements: Better gas barrier properties at elevated humidity and after pasteurization and sterilization Better optical and UV- barrier properties Better aroma barrier and flavor protection Better thermoforming and orientation properties Application examples: Grilon FG 40 NL natural 6021 is suitable for the manufacture of mono and coextruded blown and castfilms. Grilon FG 40 NL natural 6021 is used as oriented films, sausage casings and deepdrawn films as packaging for meat cheese, fish (pouches, shells, covers) at elevated humidity levels. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-FG-40-NL-nat-6021-PA6.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62
Water Vapor Transmission	10.0 g/m ² /day	0.644 g/100 in ² /day	23°C/85%r.h.; DIS 15106-1/-2
Oxygen Transmission Rate	25.0 cc/m ² /day	1.61 cc/100 in ² /day	23°C/0%r.h.; DIS 15105-1/-2
	45.0 cc/m ² /day	2.90 cc/100 in ² /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	80.0 cc-mm/m ² -24hr-atm	203 cc-mil/100 in ² -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
	120 cc-mm/m ² -24hr-atm	305 cc-mil/100 in ² -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	20 g/10 min	20 g/10 min	(MVR) [cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	35.0 MPa	5080 psi	ISO 527-3
Film Tensile Strength at Yield, TD	35.0 MPa	5080 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	800 %	800 %	ISO 527-3
Film Elongation at Yield, MD	10 %	10 %	ISO 527-3
Film Elongation at Yield, TD	7.0 %	7.0 %	ISO 527-3
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2

Mechanical Properties	Metric ^{Pa}	English	Comments ^{1/-1/-2}
Coefficient of Friction, Dynamic	0.25	0.25	ISO 8295
Tear Strength	50.0 kN/m	285 pli	Trouser Tear resistance MD; ISO 6383-1
	50.0 kN/m	285 pli	Trouser Tear resistance TD; ISO 6383-1
Elmendorf Tear Strength MD	1530 g	1530 g	ISO 6383-2
Elmendorf Tear Strength TD	1530 g	1530 g	ISO 6383-2
Film Tensile Strength at Break, MD	100 MPa	14500 psi	ISO 527-3
Film Tensile Strength at Break, TD	90.0 MPa	13100 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3

Optical Properties	Metric	English	Comments
Gloss	100 %	100 %	60°; ISO 2813

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	
Form	Granules	
Gelboflex test [holes/m ²], EMS	550	
Packaging	Medical packaging	
	Non oriented film	
	Oriented film	
	Paper coating	
	Tubes	
Processing	Blown Film Extrusion	
	Film Extrusion	
	Other Extrusion	
Product Attributes	Barrier Properties	

Descriptive Properties	Value <small>High viscosity</small>	Comments
Nucleated		

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