

EMS-Grivory Grivory® F 40 NL PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon F 40 NL natural 6018 is a nucleated and lubricated high viscosity polyamide 6. This product exhibits the following features: Good gas barrier Good mechanical properties Good barrier against oils and fats Good optical properties
Application examples: Grilon F 40 NL natural 6018 is suitable for the production of mono and co-extruded blown and cast films. Barrier layer in multi-layer films for food packaging, mostly used as vacuum bags (meat, fish, cheese) and thermoformed pouches or sausage casings.
 Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-F-40-NL-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	15.0 g/m ² /day	0.966 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
	50.0 cc/m ² /day	3.22 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
	250 cc-mm/m ² -24hr-atm	635 cc-mil/100 in ² -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	25 g/10 min	25 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	30.0 MPa	4350 psi	ISO 527-3
Film Elongation at Break, MD	700 %	700 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Film Elongation at Yield, MD	15 %	15 %	ISO 527-3
Film Elongation at Yield, TD	15 %	15 %	ISO 527-3
Tensile Modulus	0.750 GPa	109 ksi	conditioned; ISO 527-1/-2
	3.00 GPa	435 ksi	dry; ISO 527-1/-2

Mechanical Properties Coefficient of Friction, Dynamic	Metric N/m	English pli	Comments ISO 6383
Tear Strength	30.0 kN/m	171 pli	Trouser Tear resistance MD; ISO 6383-1
	30.0 kN/m	171 pli	Trouser Tear resistance TD; ISO 6383-1
Elmendorf Tear Strength MD	1020 g	1020 g	ISO 6383-2
Elmendorf Tear Strength TD	1020 g	1020 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	
Gelboflectest [holes/m ²], EMS	800	
Packaging	Non oriented film	
	Oriented film	
	Paper coating	
	Tubes	
Processing	Blown Film Extrusion	
	Film Extrusion	
	Other Extrusion	
Product Attributes	Barrier Properties	
	High viscosity	
	Nucleated	

Descriptive Properties	Value	Comments
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