

EMS-Grivory Grivory® FG 47 NL nat 6028 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon FG 47 NL natural 6028 is a modified, high viscosity Polyamide 6, which contains also slip and nucleating agents. Grilon FG 47 NL natural 6028 shows following improvements compared to standard Polyamide 6: Better flavor and gas barrier Better optical properties Reduced oxygen and moisture permeation Better thermoforming with less corner thinning and better impact behavior after thermoforming Higher bonding to colors and tie layers Application examples: Grilon FG 47 NL natural 6028 is used in different extrusion processes for the production of films, sheets and containers. Thermoforming films for food (bags, trays and lidding films) at increased humidity. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-FG-47-NL-nat-6028-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
	40.0 cc/m ² /day	2.58 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
	200 cc-mm/m ² -24hr-atm	508 cc-mil/100 in ² -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	15 g/10 min	15 g/10 min	(MVR) [cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	40.0 MPa	5800 psi	ISO 527-3
Film Tensile Strength at Yield, TD	40.0 MPa	5800 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	900 %	900 %	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}
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	
Packaging	Medical packaging	
	Non oriented film	
	Oriented film	
Processing	Tubes	
	Blown Film Extrusion	
	Extrusion - blow molding	
	Film Extrusion	
Product Attributes	Other Extrusion	
	Barrier Properties	
	High viscosity	
	Nucleated	

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