

EMS-Grivory Grivory® FG 40 NL nat 6018 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-FG-40-NL-nat-6018-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	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	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
	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Coefficient of Friction, Dynamic	0.30	0.30	ISO 8295
Tear Strength	50.0 kN/m	285 pli	Trouser Tear resistance MD; ISO 6383-1

Mechanical Properties	Metric	English	Comments
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	800	
Packaging	Medical packaging	
	Non oriented film	
	Oriented film	
	Paper coating	
	Tubes	
Processing	Blown Film Extrusion	
	Film Extrusion	
	Other Extrusion	
Product Attributes	Barrier Properties	
	High viscosity	
	Nucleated	

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