

## EMS-Grivory Grivory® F 50 nat 6368 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Product description: Grilon F 50 natural 6368 is a modified, very high viscous Polyamide 6 for extrusion processes: Very high melt strength Good chemical resistance Good gas-barrier Good mechanical properties Good barrier against oil & fat Improved processing and slip properties Application examples: Grilon F 50 natural 6368 is used for pipe extrusion, extrusion blown containers and various semi-finished products, where high melt strength is required. It can also be used for Sliding rails, in-liner for cans, sheets etc. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-F-50-nat-6368-PA6.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-F-50-nat-6368-PA6.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	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 <sup>2</sup> /day	0.966 g/100 in <sup>2</sup> /day	23°C/85%r.h.; DIS 15106-1/-2
Oxygen Transmission Rate	25.0 cc/m <sup>2</sup> /day	1.61 cc/100 in <sup>2</sup> /day	23°C/0%r.h.; DIS 15105-1/-2
	50.0 cc/m <sup>2</sup> /day	3.22 cc/100 in <sup>2</sup> /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	80.0 cc-mm/m <sup>2</sup> -24hr-atm	203 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
	250 cc-mm/m <sup>2</sup> -24hr-atm	635 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	45 g/10 min	45 g/10 min	(MVR) [cm <sup>3</sup> /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	Metric	English	Comments
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	0.500 J/cm <sup>2</sup> @Temperature 30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU
	0.600 J/cm <sup>2</sup> @Temperature 30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
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	
Gelboflex <sup>®</sup> test [holes/m <sup>2</sup> ], EMS	900	
Industry & Consumer goods	Mechanical Engineering	
Packaging	Blow moulded containers	
	Injectionstretchblowmoulded containers	
Processing	Blown Film Extrusion	
	Extrusion - blow molding	

Descriptive Properties	Other Extrusion Value	Comments
Product Attributes	Barrier Properties	
	High viscosity	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China