

EMS-Grivory Grivory® F 47 H NL nat 6020 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon F 47 HNL natural 6020 is a nucleated, high viscosity polyamide 6. This product exhibits the following features:
 Good mechanical properties Good barrier against oils and fats Good heat thermal stability Application examples: Grilon F 47 HNL natural 6020 is suitable for the production of tubes and profiles. Grilon F 47 HNL natural 6020 is used as mandrel. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-F-47-H-NL-nat-6020-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	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	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

Coefficient of Friction, Dynamic Mechanical Properties	0.25 Metric	0.25 English	ISO 8295 Comments
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
Automotive	Automotive electr. and electronics, lighting	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Gelboflectest [holes/m ²], EMS	900	
Processing	Other Extrusion	
Product Attributes	Barrier Properties	
	High viscosity	
	Nucleated	
Special Characteristics	Improved heat resistance	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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