

## EMS-Grivory Grivory® CF 6 S PA\*

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Product description: Grilon CF 6 S is an extracted copolyamide with a low melting point. Very high flexibility and toughness Very good thermoforming and orientation properties High shrink Very good transparency Low melting point (130°C) Grilon CF 6 S is suitable for the manufacture of both flat and blown coextruded films with temperature sensitive polymers such as PVDC and EVOH. Typical applications are cook in bag for meat, cheese, deep-draw consumer and medical packaging and asymmetric barrier film structures. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-CF-6-S-PA.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-CF-6-S-PA.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	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	120 cc/m <sup>2</sup> /day	7.73 cc/100 in <sup>2</sup> /day	23°C/0%r.h.; DIS 15105-1/-2
	200 cc/m <sup>2</sup> /day	12.9 cc/100 in <sup>2</sup> /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	400 cc-mm/m <sup>2</sup> -24hr-atm	1020 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
	800 cc-mm/m <sup>2</sup> -24hr-atm	2030 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	180 g/10 min	180 g/10 min	(MVR) [cm <sup>3</sup> /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	30.0 MPa	4350 psi	ISO 527-3
Film Tensile Strength at Yield, TD	28.0 MPa	4060 psi	ISO 527-3
Film Elongation at Break, MD	800 %	800 %	ISO 527-3
Film Elongation at Break, TD	900 %	900 %	ISO 527-3
Film Elongation at Yield, MD	15 %	15 %	ISO 527-3
Film Elongation at Yield, TD	8.0 %	8.0 %	ISO 527-3
Tensile Modulus	0.400 GPa	58.0 ksi	conditioned; ISO 527-1/-2
Tear Strength	65.0 kN/m	371 pli	Trouser Tear resistance MD; ISO

Mechanical Properties	Metric	English	6383-1 Comments
	65.0 kN/m	371 pli	Trouser Tear resistance TD; ISO 6383-1
Elmendorf Tear Strength MD	8160 g	8160 g	ISO 6383-2
Elmendorf Tear Strength TD	8160 g	8160 g	ISO 6383-2
Film Tensile Strength at Break, MD	85.0 MPa	12300 psi	ISO 527-3
Film Tensile Strength at Break, TD	55.0 MPa	7980 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	10°C/min; ISO 11357-1/-3

Optical Properties	Metric	English	Comments
Gloss	130 %	130 %	60°; ISO 2813

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	
Form	Granules	
Gelboflectest [holes/m <sup>2</sup> ], EMS	100	
Packaging	Oriented film	
Processing	Blown Film Extrusion	
	Film Extrusion	
	Other Extrusion	
Product Attributes	Barrier Properties	
	Co Polyamide	
	Flexible	
	High viscosity	
Special Characteristics	Transparent	

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