

## EMS-Grivory Grivory® CR 9 PA\*

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

**Product description:** Grilon CR 9 is a copolyamide with low melting temperature. Grilon CR 9 shows the following features: High flexibility and toughness Good thermoforming and orientation properties High shrinkage Good transparency Low melting point (200°C) Application examples: Grilon CR 9 is suitable for the manufacture of both blown and cast coextruded film. Grilon CR 9 is suitable for the following applications: Flexible packaging, e.g. "Cook in ham", consumer packaging of meat, cheese, smoked ham, fish, sausage, poultry and peanuts as well as many other foodstuffs. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-CR-9-PA.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-CR-9-PA.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Water Absorption	9.0 %	9.0 %	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	55.0 cc/m <sup>2</sup> /day	3.54 cc/100 in <sup>2</sup> /day	23°C/0%r.h.; DIS 15105-1/-2
	75.0 cc/m <sup>2</sup> /day	4.83 cc/100 in <sup>2</sup> /day	23°C/85%r.h.; DIS 15105-1/-2
Carbon Dioxide Transmission	200 cc-mm/m <sup>2</sup> -24hr-atm	508 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/0%r.h.; DIS 15105-1/-2
	350 cc-mm/m <sup>2</sup> -24hr-atm	889 cc-mil/100 in <sup>2</sup> -24hr-atm	23°C/85%r.h.; DIS 15105-1/-2
Melt Flow	120 g/10 min	120 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	30.0 MPa	4350 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	10 %	10 %	ISO 527-3
Film Elongation at Yield, TD	10 %	10 %	ISO 527-3
Tensile Modulus	0.550 GPa	79.8 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	2040 g	2040 g	ISO 6383-2
Elmendorf Tear Strength TD	2040 g	2040 g	ISO 6383-2
Film Tensile Strength at Break, MD	80.0 MPa	11600 psi	ISO 527-3
Film Tensile Strength at Break, TD	75.0 MPa	10900 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	200 °C	392 °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	800	
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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