

EMS-Grivory Grilon® CA 6 E PA*

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#)

Material Notes: Product description: Grilon CA 6 E is a non-extracted copolyamide with a low melting point. Grilon CA 6 E characterizes itself through the following properties

- Very high flexibility and toughness
- Very good thermoforming and orientation properties
- High shrink
- Very good transparency
- Low melting point (130°C)

Grilon CA 6E is suitable for use as a middle layer of a multi layer structure. Suitable applications include flexible packaging for foodstuffs such as shrinkable film for consumer packaging E.g meat, cheese, sausage and fish.

Information provided by EMS Grivory.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	Dry; ISO 1183
Water Absorption	5.0 %	5.0 %	Sim. to ISO 62
Moisture Absorption	2.00 %	2.00 %	Sim. to ISO 62
Water Vapor Transmission	20.0 g/m ² /day	1.29 g/100 in ² /day	23°C/85% RH; ISO 15106-1/-2
Melt Flow	250 g/10 min	250 g/10 min	cm ³ /10min Volumetric; ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	20.0 MPa	2900 psi	ISO 527-3
Film Tensile Strength at Yield, TD	18.0 MPa	2610 psi	ISO 527-3
Film Elongation at Break, MD	900 %	900 %	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	15 %	15 %	ISO 527-3
Tensile Modulus	0.350 GPa	50.8 ksi	Conditioned; ISO 527-1/-2
Tear Strength	65.0 kN/m	371 pli	Trouser Tear Resistance, Parallel; ISO 6383-1
	65.0 kN/m	371 pli	Trouser Tear Resistance, Normal; ISO 6383-1
Film Tensile Strength at Break, MD	90.0 MPa	13100 psi	ISO 527-3
Film Tensile Strength at Break, TD	60.0 MPa	8700 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

Carbon Dioxide Transmission Rate, cm ³ /(m ² *d*bar)	450	ISO 15105-1/-2; 23°C/0% RH
	850	ISO 15105-1/-2; 23°C/ 85% RH
Elmendorf Tear Resistance, Normal (N)	80	ISO 6383-2
Elmendorf Tear Resistance, Parallel (N)	80	ISO 6383-2
EMS Gelboflectest [holes/m ²]	100	
Food contact	EU Requirements	
Form	Granules	

Gelboflex test [holes/m ²], EMS	100	
Oxygen Transmission Rate, cm ³ /(m ² *d*bar)	150	ISO 15105-1/-2; 23°C/0% RH
	250	ISO 15105-1/-2; 23°C/ 85% RH
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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