

Grilon® CA 6 E

Polyamide 6/12 Copolymer

EMS-GRIVORY

Message:

Grilon® CA 6 E is a Polyamide 6/12 Copolymer (Nylon 6/12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blown film, cast film, extrusion, or film extrusion.

Important attributes of Grilon® CA 6 E are:

- RoHS Compliant
- Copolymer
- Food Contact Acceptable
- Good Flexibility
- High Viscosity

Typical applications include:

- Film
- Food Contact Applications
- Packaging

General Information				
Features	Barrier Resin			
	Copolymer			
	Food Contact Acceptable			
	Good Flexibility			
	High Viscosity			
Uses	Cast Film			
	Film			
	Oriented Film			
	Packaging			
Agency Ratings	EU Food Contact, Unspecified Rating			
RoHS Compliance	RoHS Compliant			
Appearance	Clear/Transparent			
Forms	Granules			
Processing Method	Blown Film			
	Cast Film			
	Extrusion			
	Film Extrusion			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Shear Modulus vs. Temperature (ISO 11403-1)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183

Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	250	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	350	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	20.0	--	MPa	
TD : Yield	18.0	--	MPa	
MD : Break	90.0	--	MPa	
TD : Break	60.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	15	--	%	
TD : Yield	15	--	%	
MD : Break	900	--	%	
TD : Break	900	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	80	--	N	
TD	80	--	N	
Trouser Tear Resistance				ISO 6383-1
MD	65.0	--	N/mm	
TD	65.0	--	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	20	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate				DIS 15105-1/-2
23°C ¹	150	--	cm ³ /m ² /bar/24 hr	
23°C ²	250	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	850	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	450	--	cm ³ /m ² /bar/24 hr	
Gelboflex test	100	--	holes/m ²	Internal Method
ISO Type	PA6/12-P, FT, 14-004	--		ISO 1874
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁵	130	--	°C	ISO 11357-3
Optical	Dry	Conditioned		Test Method
Gloss (60°)	130	--		ISO 2813
NOTE				
1.	0% RH			
2.	85% RH			

3.	85% RH
4.	0% RH
5.	10°C/min

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

