

Grilon® CR 9

Polyamide 6/12 Copolymer

EMS-GRIVORY

Message:

Grilon® CR 9 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® CR 9 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
	FDA 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)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	120	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	550	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	30.0	--	MPa	
TD : Yield	30.0	--	MPa	
MD : Break	80.0	--	MPa	
TD : Break	75.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	10	--	%	
TD : Yield	10	--	%	
MD : Break	800	--	%	
TD : Break	900	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	20	--	N	
TD	20	--	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)	15	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate				DIS 15105-1/-2
23°C ¹	55	--	cm ³ /m ² /bar/24 hr	
23°C ²	75	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	350	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	200	--	cm ³ /m ² /bar/24 hr	
Gelboflex test	800	--	holes/m ²	Internal Method
ISO Type	PA 6/12 FT, 16-020	--		ISO 1874
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁵	200	--	°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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