

Grilon® FG 40 NL nat 6021

Polyamide 6

EMS-GRIVORY

Message:

Grilon® FG 40 NL nat 6021 is a Polyamide 6 (Nylon 6) 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® FG 40 NL nat 6021 are:

RoHS Compliant

Food Contact Acceptable

High Viscosity

Medium Viscosity

Nucleated

Typical applications include:

Film

Coating Applications

Food Contact Applications

Hose/Tubing

Medical/Healthcare

General Information	
Additive	Nucleating Agent
	UV Stabilizer
Features	Barrier Resin
	Food Contact Acceptable
	High Viscosity
	Medium Viscosity
	Nucleated
Uses	Cast Film
	Coating Applications
	Film
	Medical Packaging
	Non-oriented Film
	Oriented Film
	Packaging
	Paper Coatings
	Tubing
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
RoHS Compliance	RoHS Compliant
Appearance	Natural Color

Forms	Granules
Processing Method	Blown Film
	Cast Film
	Extrusion
	Film Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1100	MPa	ISO 527-2
Coefficient of Friction (Dynamic)	0.25	--		ISO 8295
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	35.0	--	MPa	
TD : Yield	35.0	--	MPa	
MD : Break	100	--	MPa	
TD : Break	90.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	10	--	%	
TD : Yield	7.0	--	%	
MD : Break	600	--	%	
TD : Break	800	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	15	--	N	
TD	15	--	N	
Trouser Tear Resistance				ISO 6383-1
MD	50.0	--	N/mm	
TD	50.0	--	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	10	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate				DIS 15105-1/-2
23°C ¹	25	--	cm ³ /m ² /bar/24 hr	
23°C ²	45	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	120	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	80.0	--	cm ³ /m ² /bar/24 hr	

Gelboflex test	550	--	holes/m ²	Internal Method
ISO Type	PA 6+PA 6I/6T, FR, 27-030N	--		ISO 1874
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁵	222	--	°C	ISO 11357-3
Optical	Dry	Conditioned		Test Method
Gloss (60°)	100	--		ISO 2813
NOTE				
1.	0% RH			
2.	85% RH			
3.	85% RH			
4.	0% RH			
5.	10°C/min			

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