

Grilon® F 47 NL nat 6028

Polyamide 6

EMS-GRIVORY

Message:

Grilon® F 47 NL nat 6028 is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding, blown film, cast film, extrusion, or film extrusion.

Important attributes of Grilon® F 47 NL nat 6028 are:

- RoHS Compliant
- Food Contact Acceptable
- High Viscosity
- Nucleated

Typical applications include:

- Film
- Food Contact Applications
- Consumer Goods
- Containers
- Engineering/Industrial Parts

General Information	
Additive	Nucleating Agent
Features	Barrier Resin
	Food Contact Acceptable
	High Viscosity
	Nucleated
Uses	Blow Molding Applications
	Blown Containers
	Cast Film
	Consumer Applications
	Engineering Parts
	Film
	Industrial Applications
	Non-oriented Film
	Oriented Film
	Packaging
	Tubing
Agency Ratings	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Forms	Granules
Processing Method	Blow Molding

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)	15.0	--	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	750	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	30.0	--	MPa	
MD : Break	100	--	MPa	
TD : Break	90.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	15	--	%	
TD : Yield	15	--	%	
MD : Break	700	--	%	
TD : Break	700	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	10	--	N	
TD	10	--	N	
Trouser Tear Resistance				ISO 6383-1
MD	30.0	--	N/mm	
TD	30.0	--	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	25	--	cm ³ /m ² /bar/24 hr	
23°C ²	50	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	250	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	80.0	--	cm ³ /m ² /bar/24 hr	
Gelboflex test	900	--	holes/m ²	Internal Method

ISO Type	PA6, FS, 32-030/N	--		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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