

Grilon® FG 47 NL nat 6028

Polyamide 6

EMS-GRIVORY

Message:

Grilon® FG 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® FG 47 NL nat 6028 are:

RoHS Compliant

Food Contact Acceptable

High Viscosity

Nucleated

UV Stabilized

Typical applications include:

Film

Food Contact Applications

Hose/Tubing

Medical/Healthcare

Packaging

General Information	
Additive	Nucleating Agent UV Stabilizer
Features	Barrier Resin Food Contact Acceptable High Viscosity Nucleated
Uses	Blow Molding Applications Cast Film Film Medical Packaging 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	1100	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	40.0	--	MPa	
TD : Yield	40.0	--	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	900	--	%	
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	40	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	200	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	80.0	--	cm ³ /m ² /bar/24 hr	
ISO Type	PA 6 + 6I/6T, FR, 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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