Grilon® F 50 nat 6368

Polyamide 6

EMS-GRIVORY

Message:

Grilon® F 50 nat 6368 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, extrusion, or injection stretch blow molding.
Important attributes of Grilon® F 50 nat 6368 are:
RoHS Compliant
Food Contact Acceptable
High Viscosity
Typical applications include:
Food Contact Applications
Consumer Goods
Containers
Engineering/Industrial Parts
Film

General Information	
Features	Barrier Resin Food Contact Acceptable High Viscosity
Uses	Blow Molding Applications Blown Containers Consumer Applications Engineering Parts Film Industrial Applications Packaging
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 Extrusion Injection Stretch Blow Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183

Melt Volume-Flow Rate (MVR) (275°C/21.6 kg)	45.0	--	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
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	
Gelboflextest	900	--	holes/m^2	Internal Method
ISO Type	PA 6, F, 34-030	--		ISO 1874
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	5.0	kJ/m^2	
23°C	6.0 kJ/m^2	No Break		
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

Recommended distributors for this material

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