

Grilamid® L 20 nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20 nat is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for cast film, extrusion, film extrusion, or injection molding.

Important attributes of Grilamid® L 20 nat are:

- Flame Rated
- RoHS Compliant
- Food Contact Acceptable
- Medium Viscosity

Typical applications include:

- Film
- Medical/Healthcare
- Food Contact Applications
- Consumer Goods
- Industrial Applications

General Information				
Features	Food Contact Acceptable			
	Medium Viscosity			
Uses	Cast Film			
	Consumer Applications			
	Film			
	Industrial Applications			
	Medical Devices			
	Medical/Healthcare Applications			
	Non-oriented Film			
	Packaging			
Agency Ratings	EU Food Contact, Unspecified Rating			
	FDA Food Contact, Unspecified Rating			
	USP Class VI			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Forms	Granules			
Processing Method	Cast Film			
	Extrusion			
	Film Extrusion			
	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method

Density	1.01	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	70		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1400	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	45.0	40.0	MPa	
Break	55.0	50.0	MPa	
Tensile Strain (Yield)	5.0	12	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.0	kJ/m ²	
23°C	6.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	125	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 100	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms · cm	IEC 60093

Electric Strength	--	32	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12, E, 18-010	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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