

Grilamid® L 20H FWA nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20H FWA nat is a Polyamide 12 (Nylon 12) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® L 20H FWA nat are:

- Flame Rated
- Food Contact Acceptable
- Heat Stabilizer
- Medium Viscosity
- Typical applications include:
 - Plumbing/Piping/Potable Water
 - Food Contact Applications
 - Consumer Goods
 - Household Applications
 - Industrial Applications

General Information				
Additive		Heat Stabilizer		
Features		Food Contact Acceptable		
		Heat Stabilized		
		Hydrolysis Resistant		
		Medium Viscosity		
Uses		Consumer Applications		
		Household Goods		
		Industrial Applications		
Agency Ratings		ACS Unspecified Rating		
		DVGW W270		
		EU Food Contact, Unspecified Rating		
		FDA Food Contact, Unspecified Rating		
		KTW Unspecified Rating		
		NSF 51		
		NSF 61		
		WRAS Unspecified Rating		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm³	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	--	1100	MPa	ISO 527-2
Tensile Stress (Yield)	--	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	--	12	%	ISO 527-2
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	6.0	kJ/m ²	
23°C	--	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	No Break		
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	115	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 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, MH, 18-010	--	ISO 1871
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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