

Grilamid® L 16 nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 16 nat is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grilamid® L 16 nat are:

- RoHS Compliant
- Food Contact Acceptable
- Good Mold Release
- Low Viscosity

Typical applications include:

- Consumer Goods
- Engineering/Industrial Parts
- Food Contact Applications
- Household Applications
- Industrial Applications

General Information				
Features		Food Contact Acceptable		
		Good Flow		
		Good Mold Release		
		Low Viscosity		
Uses		Consumer Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Medical Devices		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Agency Ratings		FDA Food Contact, Unspecified Rating		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Forms		Granules		
Processing Method		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	1500	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	45.0	45.0	MPa	
Break	50.0	50.0	MPa	
Tensile Strain (Yield)	5.0	15	%	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	6.0	7.0	kJ/m ²	
23°C	6.0	6.0	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	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	--	°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

Additional Information	Dry	Conditioned	Test Method
ISO Type	PA12, E, 14-010	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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