Grilamid® L 16 GM nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 16 GM nat is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® L 16 GM nat are:
Flame Rated
RoHS Compliant
Good Mold Release
Low Viscosity
Mold Release Agent
Typical applications include:
Electrical/Electronic Applications
Consumer Goods
Engineering/Industrial Parts
Household Applications
Industrial Applications

General Information			
UL YellowCard	E53898-243832	E132701-100536651	E132701-237867
Additive	Mold Release Nucleating Agent		
Features	Good Flow Good Mold Release Low Viscosity Lubricated Nucleated		
Uses	Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Household Goods Hydraulic Applications Industrial Applications Pneumatic Applications Power/Other Tools Sporting Goods		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Granules		

Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	
Equilibrium, 23°C, 50% RH	0.40	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	70.0	MPa	ISO 2039-1
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	--	5.0	kJ/m²	
23°C	--	6.0	kJ/m²	
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	130	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- [1]	90.0 to 110	--	°C	
-- [2]	140	--	°C	
Melting Temperature [3]	178	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	--	1.0E+14	ohms·cm	IEC 60093
Electric Strength	--	32	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	--	3.00		IEC 60250
Dissipation Factor (1 MHz)	--	0.040		IEC 60250
Comparative Tracking Index	--	600	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20

NOTE	
1.	Long Term
2.	Short Term
3.	10°C/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China