

Grilamid® LV-2A NZ

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-2A NZ is a Polyamide 12 (Nylon 12) material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® LV-2A NZ are:

RoHS Compliant

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Appliances

Automotive

Consumer Goods

Engineering/Industrial Parts

General Information				
UL YellowCard		E53898-102177757		
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Features		Hydrolysis Resistant		
		Ultra High Impact Resistance		
Uses		Appliance Components		
		Automotive Applications		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Medical Devices		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	

Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.1	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	95.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4500	3500	MPa	ISO 527-2
Tensile Stress (Break)	85.0	80.0	MPa	ISO 527-2
Tensile Strain (Break)	10	15	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	20	kJ/m ²	
23°C	--	30	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	--	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.0E-5	--	cm/cm/°C	
Transverse	1.5E-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	--	35	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12, MHR, 22-040, GF20	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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