

Grilamid® L 25A NZ

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25A NZ 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 25A NZ are:

- Flame Rated
- RoHS Compliant
- High Viscosity
- Impact Resistant

Typical applications include:

- Automotive
- Consumer Goods
- Electrical/Electronic Applications
- Hose/Tubing
- Industrial Applications

General Information				
Features		High Viscosity		
		Hydrolysis Resistant		
		Ultra High Impact Resistance		
Uses		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Sporting Goods		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Extrusion		
		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	0.980	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4

Across Flow	1.6	--	%	
Flow	1.0	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.3	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	66		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1000	750	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	35.0	30.0	MPa	
Break	45.0	40.0	MPa	
Tensile Strain (Yield)	12	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	80	75	kJ/m ²	
23°C	100	100	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	80.0	--	°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
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-HI, EH, 24-007	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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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

