

Grilamid® L 25 Z

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 Z is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilamid® L 25 Z 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 Impact Resistance
	High Viscosity
Uses	Automotive Applications
	Consumer Applications
	Electrical/Electronic Applications
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Tubing
	Wire & Cable Applications
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Extrusion
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)
	Specific Volume vs Temperature (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
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)	--	68		ISO 868
Ball Indentation Hardness	--	55.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	900	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	35.0	MPa	
Break	40.0	40.0	MPa	
Tensile Strain				ISO 527-2
Yield	--	12	%	
Break	> 50	--	%	
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	13	kJ/m ²	
23°C	--	55	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	85.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	140	--	°C	
Melting Temperature ³	179	--	°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	--	22	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-HI, EH, 24-010	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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