

Grilamid® L 25 W 40 ESD

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 W 40 ESD 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 W 40 ESD are:

- Flame Rated
- RoHS Compliant
- Plasticized
- Antistatic
- Good Flexibility
- Typical applications include:
 - Automotive
 - Consumer Goods
 - Electrical/Electronic Applications
 - Hose/Tubing
 - Industrial Applications

General Information				
Additive		Antistatic		
		Plasticizer		
Features		Antistatic		
		Good Flexibility		
		Good UV Resistance		
		High Viscosity		
		Medium Heat Resistance		
		Plasticized		
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)		
Physical	Dry	Conditioned	Unit	Test Method

Density	1.04	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.1	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.1	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	63		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	350	350	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	25.0	25.0	MPa	
Break	35.0	35.0	MPa	
Tensile Strain (Yield)	20	20	%	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	7.0	9.0	kJ/m ²	
23°C	No Break	No Break		
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	95.0	--	°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 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	173	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.8E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+6	ohms	IEC 60093
Volume Resistivity	--	1.0E+5	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-HIP, EHLZ, 22-004	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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