

Grilamid® L 20 EC

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20 EC 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 20 EC are:

- RoHS Compliant
- Antistatic
- Conductive
- Heat Resistant
- Medium Viscosity

Typical applications include:

- Electrical/Electronic Applications
- Automotive
- Consumer Goods
- Engineering/Industrial Parts
- Industrial Applications

General Information	
Additive	Antistatic
Features	Antistatic
	Electrically Conductive
	Medium Heat Resistance
	Medium Viscosity
Uses	Automotive Applications
	Connectors
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Industrial Applications
	Power/Other Tools
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.2	--	%	
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)	--	72		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1900	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	55.0	50.0	MPa	
Break	50.0	40.0	MPa	
Tensile Strain (Yield)	5.0	10	%	ISO 527-2
Nominal Tensile Strain at Break	25	30	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	2.0	kJ/m ²	
23°C	3.0	2.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	50	kJ/m ²	
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.3E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+2	ohms	IEC 60093
Volume Resistivity	--	1.0E+2	ohms · cm	IEC 60093
Additional Information	Dry	Conditioned		Test Method

ISO Type	PA12, MHLRZ, 18-020, CD25 --	ISO 1874
NOTE		
1.	Long Term	
2.	Short Term	
3.	10°C/min	

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