

Grilamid® L 20 LF grey

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20 LF grey 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 20 LF grey are:

Flame Rated

RoHS Compliant

Good UV Resistance

Medium Viscosity

UV Stabilized

Typical applications include:

Appliances

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-101968687
Additive	UV Stabilizer
Features	Good UV Resistance
	Good Wear Resistance
	Low Friction
	Medium Viscosity
Uses	Appliance Components
	Automotive Applications
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
	Tubing
	Wire & Cable Applications
RoHS Compliance	RoHS Compliant
Appearance	Grey
Forms	Granules

Processing Method		Extrusion		
		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	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.40	--	%	
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)	--	72		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	2000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	50.0	45.0	MPa	
Break	40.0	40.0	MPa	
Tensile Strain (Yield)	10	12	%	ISO 527-2
Nominal Tensile Strain at Break	40	40	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	3.0	kJ/m ²	
23°C	--	4.0	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	140	--	°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	8.0E-5	--	cm/cm/°C	
Transverse	1.3E-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	--	21	kV/mm	IEC 60243-1
Comparative Tracking Index	--	225	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, MHZ, 18-020, CD12	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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