

Grilamid® L 20 W 20

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20 W 20 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 20 W 20 are:

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

General Information				
Additive		Plasticizer		
Features	Good Flexibility			
	Medium Viscosity			
	Plasticized			
Uses	Automotive Applications			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Hydraulic Applications			
	Industrial Applications			
	Pneumatic Applications			
	Tubing			
	Wire & Cable Applications			
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Extrusion		
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	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
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)	--	64		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	650	500	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	30.0	30.0	MPa	
Break	60.0	60.0	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	--	3.0	kJ/m ²	
23°C	--	40	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	100	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 100	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	174	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.6E-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	--	32	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-P, GHK, 18-005	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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