

Grilamid® L 20A HL NZ nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 20A HL NZ nat is a polyamide 12 (nylon 12) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Grilamid® The main features of L 20A HL NZ nat are:

- flame retardant/rated flame
- ROHS certification
- Impact modification
- Good UV resistance
- Good flexibility

Typical application areas include:

- Electrical/electronic applications
- Wire and cable
- industrial applications
- Automotive Industry
- Hose

General Information				
Additive		Impact modifier		
Features		Impact modification		
		Good UV resistance		
		Good flexibility		
		Alcohol resistance		
		Heat resistance, medium		
		Hydrolysis resistance		
Uses		Electrical/Electronic Applications		
		Wire and cable applications		
		Industrial application		
		Pipe fittings		
		Pneumatic application		
		Application in Automobile Field		
		Sporting goods		
		Hydraulic application		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Forms		Particles		
Processing Method		Extrusion		
		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method

Density	0.980	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.6	--	%	ISO 294-4
Flow	1.0	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	1.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.60	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	65	65		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1000	750	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	13	18	%	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	60	40	kJ/m ²	ISO 179/1eA
23°C	85	85	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	70.0	--	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ¹	90.0 - 100	--	°C	ISO 2578
-- ²	150	--	°C	Internal method
Melting Temperature ³	179	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	1.7E-4	--	cm/cm/°C	ISO 11359-2
Lateral	2.1E-4	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms · cm	IEC 60093
Dielectric Strength	40	40	kV/mm	IEC 60243-1

Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12-HI, GHL, 18-010	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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