

Grilamid® L 25 nat 6112

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 nat 6112 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 film extrusion.

Important attributes of Grilamid® L 25 nat 6112 are:

Flame Rated

RoHS Compliant

High Viscosity

Typical applications include:

Automotive

Film

Consumer Goods

Industrial Applications

Packaging

General Information				
UL YellowCard		E53898-243837	E53898-243838	E132701-100536654
		E132701-237870		
Features		High Viscosity		
Uses	Automotive Applications			
	Consumer Applications			
	Film			
	Hydraulic Applications			
	Industrial Applications			
	Non-oriented Film			
	Packaging			
	Pneumatic Applications			
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Forms		Granules		
Processing Method	Extrusion			
	Film Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	

Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1400	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	45.0	40.0	MPa	
Break	55.0	50.0	MPa	
Tensile Strain (Yield)	10	12	%	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	kJ/m ²	
23°C	--	10	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	115	--	°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	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.2E-4	--	cm/cm/°C	
Transverse	1.4E-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	PA 12, GHR, 24-010	--		ISO 1874

NOTE

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|----|------------|
| 1. | Long Term |
| 2. | Short Term |
| 3. | 10°C/min |

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