

Grilamid® L 25 G nat 6011

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L 25 G nat 6011 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 G nat 6011 are:

- RoHS Compliant
- Food Contact Acceptable
- High Viscosity
- Mold Release Agent

Typical applications include:

- Film
- Food Contact Applications
- Packaging

General Information				
Additive	Mold Release			
Features	Food Contact Acceptable			
	High Viscosity			
	Lubricated			
Uses	Film			
	Non-oriented Film			
	Packaging			
Agency Ratings	EU Food Contact, Unspecified Rating			
	FDA Food Contact, Unspecified Rating			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Forms	Granules			
Processing Method	Extrusion			
	Film Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	1.5	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	1600	1100	MPa	ISO 527-2
Films	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-3
MD : Yield	35.0	--	MPa	
TD : Yield	35.0	--	MPa	
MD : Break	80.0	--	MPa	
TD : Break	70.0	--	MPa	
Tensile Elongation				ISO 527-3
MD : Yield	6.0	--	%	
TD : Yield	6.0	--	%	
MD : Break	850	--	%	
TD : Break	900	--	%	
Elmendorf Tear Strength				ISO 6383-2
MD	10	--	N	
TD	10	--	N	
Trouser Tear Resistance				ISO 6383-1
MD	20.0	--	N/mm	
TD	25.0	--	N/mm	
Water Vapor Transmission Rate (23°C, 85% RH)	8.0	--	g/m ² /24 hr	DIS 15106-1/-2
Oxygen Transmission Rate				DIS 15105-1/-2
23°C ¹	350	--	cm ³ /m ² /bar/24 hr	
23°C ²	370	--	cm ³ /m ² /bar/24 hr	
Carbon Dioxide Transmission Rate				DIS 15105-1/-2
23°C ³	1600	--	cm ³ /m ² /bar/24 hr	
23°C ⁴	1500	--	cm ³ /m ² /bar/24 hr	
Gelboflex test	1300	--	holes/m ²	Internal Method
ISO Type	PA 12, E, 24-010	--		ISO 1874
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	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁵	178	--	°C	ISO 11357-3
Optical	Dry	Conditioned		Test Method
Gloss (60°)	150	--		ISO 2813
NOTE				
1.	0% RH			
2.	85% RH			
3.	85% RH			
4.	0% RH			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

