

Grilamid L 25 G nat 6011

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 12, E, 24-010

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1600 / 1100	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	- / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 7	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	178 / -	°C	ISO 11357-1/-3
Max. usage temperature (long term)	80 - 110	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.5 / -	%	Sim. to ISO 62
Humidity absorption	0.7 / -	%	Sim. to ISO 62
Density	1010 / -	kg/m ³	ISO 1183

Film Properties	dry / cond	Unit	Test Standard
Stress at yield (parallel)	35 / -	MPa	ISO 527-3
Stress at yield (normal)	35 / -	MPa	ISO 527-3
Strain at yield (parallel)	6 / -	%	ISO 527-3
Strain at yield (normal)	6 / -	%	ISO 527-3
Maximum strain (parallel)	850 / -	%	ISO 527-3
Maximum strain (normal)	900 / -	%	ISO 527-3
Elmendorf Tear resistance (parallel)	10 / -	N	ISO 6383-2
Elmendorf Tear resistance (normal)	10 / -	N	ISO 6383-2
Trouser Tear resistance (parallel)	20 / -	N/mm	ISO 6383-1
Trouser Tear resistance (normal)	25 / -	N/mm	ISO 6383-1
Gloss, 60°	150 / -	-	ISO 2813
WVTR (23°C/85%r.h.)	8 / -	g/(m ² *d)	ISO 15106-1/-2
Oxygen transmission rate (23°C/0%r.h.)	350 / -	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Oxygen transmission rate (23°C/85%r.h.)	370 / -	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Carbon Dioxide transm. rate (23°C/0%r.h.)	1500 / -	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Carbon Dioxide transm. rate (23°C/85%r.h.)	1600 / -	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Stress at break (parallel)	80	MPa	ISO 527-3
Stress at break (normal)	70	MPa	ISO 527-3
Gelboflex test	1300	holes/m ²	EMS

Rheo/Phys properties	dry / cond	Unit	Test Standard
Melt volume-flow rate (MVR)	20 / -	cm ³ /10min	ISO 1133
Temperature	275 / -	°C	ISO 1133
Load	5 / -	kg	ISO 1133

Characteristics

Processing

Other Extrusion

Delivery form

Granules

Product Attributes

High viscosity

Packaging

Non oriented film

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Regional Availability

North America, Europe, Asia Pacific, South and Central America,
Near East/Africa

Food Contact

EU Requirements, FDA
