

## Grilamid L 25 Z

PA12-I

EMS-GRIVORY | a unit of EMS-CHEMIE AG

## Product Texts

Product designation according to ISO 1874:

PA12-HI, EH, 24-010

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	- / <b>900</b>	MPa	ISO 527-1/-2
Yield stress	- / <b>35</b>	MPa	ISO 527-1/-2
Yield strain	- / <b>12</b>	%	ISO 527-1/-2
Nominal strain at break	- / <b>&gt;50</b>	%	ISO 527-1/-2
Stress at break	<b>40 / 40</b>	MPa	ISO 527-1/-2
Strain at break	<b>&gt;50 / -</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / <b>55</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / <b>13</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	- / <b>68</b>	-	ISO 868
Ball indentation hardness	- / <b>55</b>	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>179 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>40 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	<b>85 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>120 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>140 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>90 - 110</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>140</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / <b>1E11</b>	Ohm*m	IEC 60093
Surface resistivity	- / <b>1E12</b>	Ohm	IEC 60093
Electric strength	- / <b>22</b>	kV/mm	IEC 60243-1
Comparative tracking index	- / <b>600</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>1.5 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>0.7 / -</b>	%	Sim. to ISO 62
Density	<b>1000 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.8 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>1.3 / -</b>	%	ISO 294-4, 2577

## Characteristics

## Processing

Other Extrusion

## Product Attributes

High viscosity

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**Delivery form**

Granules

**Automotive**

Compressed air systems, Fuel systems

**Special Characteristics**

High impact or impact modified, Improved UV resistance (outdoor use), Improved heat resistance

**Electricals & Electronics**

Cables & Tubes

**Regional Availability**

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

**Industry & Consumer goods**

Hydraulics & Pneumatics

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