

**Grilon FG 47 NL nat 6028**

PA6

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 6 + 6I/6T, FR, 32-030/N

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>3000 / 1100</b>	MPa	ISO 527-1/-2

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>222 / -</b>	°C	ISO 11357-1/-3

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>9 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>3 / -</b>	%	Sim. to ISO 62
Density	<b>1140 / -</b>	kg/m <sup>3</sup>	ISO 1183

Film Properties	dry / cond	Unit	Test Standard
Stress at yield (parallel)	<b>40 / -</b>	MPa	ISO 527-3
Stress at yield (normal)	<b>40 / -</b>	MPa	ISO 527-3
Strain at yield (parallel)	<b>10 / -</b>	%	ISO 527-3
Strain at yield (normal)	<b>7 / -</b>	%	ISO 527-3
Maximum strain (parallel)	<b>600 / -</b>	%	ISO 527-3
Maximum strain (normal)	<b>900 / -</b>	%	ISO 527-3
Elmendorf Tear resistance (parallel)	<b>15 / -</b>	N	ISO 6383-2
Elmendorf Tear resistance (normal)	<b>15 / -</b>	N	ISO 6383-2
Trouser Tear resistance (parallel)	<b>50 / -</b>	N/mm	ISO 6383-1
Trouser Tear resistance (normal)	<b>50 / -</b>	N/mm	ISO 6383-1
Gloss, 60°	<b>100 / -</b>	-	ISO 2813
WVTR (23°C/85%r.h.)	<b>10 / -</b>	g/(m <sup>2</sup> *d)	ISO 15106-1/-2
Oxygen transmission rate (23°C/0%r.h.)	<b>25 / -</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
Oxygen transmission rate (23°C/85%r.h.)	<b>40 / -</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
Carbon Dioxide transm. rate (23°C/0%r.h.)	<b>80 / -</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
Carbon Dioxide transm. rate (23°C/85%r.h.)	<b>200 / -</b>	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	ISO 15105-1/-2
Stress at break (parallel)	<b>100</b>	MPa	ISO 527-3
Stress at break (normal)	<b>90</b>	MPa	ISO 527-3

Rheo/Phys properties	dry / cond	Unit	Test Standard
Melt volume-flow rate (MVR)	<b>15 / -</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>275 / -</b>	°C	ISO 1133
Load	<b>5 / -</b>	kg	ISO 1133

**Characteristics**
**Processing**

 Extrusion - cast film, Extrusion - blow molding, Blown Film  
 Extrusion, Other Extrusion

**Delivery form**

Granules

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America,

**Product Attributes**

Barrier Properties, High viscosity, Nucleated

**Packaging**

Non oriented film, Oriented film, Tubes, Medical packaging

**Food Contact**

EU Requirements, FDA



Near East/Africa

