

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	3000 / 1100	MPa	ISO 527-1/-2

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

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

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

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