

## Grilon TSG-30/4 V0

PA666-GF30 FR

EMS-GRIVORY | a unit of EMS-CHEMIE AG

### Product Texts

Product designation according to ISO 1874:  
PA 66 + PA6, MFHR, 14-110N, GF 30 FR(40)

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	10500 / 6500	MPa	ISO 527-1/-2
Stress at break	150 / 90	MPa	ISO 527-1/-2
Strain at break	2.5 / 4.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / 70	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	9 / 8.5	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	255 / 130	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	260 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	165 / -	°C	ISO 75-1/-2
Burning Behav. at thickness h	V-0 / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	100 - 120	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1440 / -	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

### Characteristics

#### Processing

Injection Molding

#### Automotive

Automotive electr. and electronics, lighting

#### Delivery form

Granules

#### Electricals & Electronics

Electrical appliances, Electrical equipment, Cables & Tubes, Connectors, Energy distribution, Lighting

#### Special Characteristics

Flame retardant, Improved UV resistance (outdoor use)

#### Burning Behaviour

UL 5VA, UL V0, VDE

**Regional Availability**

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