

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

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

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

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

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

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