

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 ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9 / 8.5	kJ/m ²	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 ³	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