

Grilon TSG-30/4 H black 9836

PA666-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 66 + PA6, MHR, 14-100N, GF 30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	10000 / 6200	MPa	ISO 527-1/-2
Yield stress	- / 110	MPa	ISO 527-1/-2
Yield strain	- / 4	%	ISO 527-1/-2
Nominal strain at break	- / 8	%	ISO 527-1/-2
Stress at break	180 / 100	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 6	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	205 / 150	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)	130 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	70 / -	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	100 - 130	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E12 / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	25 / 21	kV/mm	IEC 60243-1
Comparative tracking index	- / 475	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4.5 / -	%	Sim. to ISO 62
Humidity absorption	2 / -	%	Sim. to ISO 62
Density	1350 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.6 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Product Attributes

High viscosity

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Delivery form

Granules

Automotive

Cooling and climate control

Special Characteristics

Improved heat resistance

Industry & Consumer goods

Heating systems
