

Grilon TSG-60/4 W

PA666-GF60

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 66+PA 6, MHR, 14-160 N, GF 60

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	20000 / 13000	MPa	ISO 527-1/-2
Stress at break	242 / 159	MPa	ISO 527-1/-2
Strain at break	2.2 / 3.6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	86 / 91	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	86 / 76	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11.5 / 11	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	317 / 198	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	265 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	245 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	210 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	13 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	87 / -	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)	130 - 150	°C	ISO 2578
Max. usage temperature (short term)	230	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	5 / -	%	Sim. to ISO 62
Humidity absorption	1.2 / -	%	Sim. to ISO 62
Density	1720 / -	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)	0.3 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Improved heat resistance

Regional Availability

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

Automotive

Air intake sytems, Hydraulic systems, Automotive electr. and electronics, lighting, Cooling and climate control

Electricals & Electronics

Lighting

Industry & Consumer goods

Heating systems, Hydraulics & Pneumatics, Mechanical Engineering, Sports & Leisure

