

**Grilon TSG-25/4**

PA666-GF25

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 66+PA 6,MHR, 14-080 N,GF 25

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>7700 / 5600</b>	MPa	ISO 527-1/-2
Yield stress	<b>- / 90</b>	MPa	ISO 527-1/-2
Yield strain	<b>- / 4</b>	%	ISO 527-1/-2
Nominal strain at break	<b>- / 6</b>	%	ISO 527-1/-2
Stress at break	<b>165 / 90</b>	MPa	ISO 527-1/-2
Strain at break	<b>4 / -</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>60 / 70</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>50 / 50</b>	kJ/m <sup>2</sup>	ISO 179/1eU

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>225 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>25 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>80 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>90 - 110</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>180</b>	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>6 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.5 / -</b>	%	Sim. to ISO 62
Density	<b>1300 / -</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**

Air intake systems, Powertrain and Chassis

**Delivery form**

Granules

**Electricals & Electronics**

Electrical appliances, Electrical equipment

**Regional Availability**

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

**Industry & Consumer goods**

Housewares, Mechanical Engineering, Sports & Leisure, Tools & Accessories