

**Grilon TSG-30/4 LF 15**

PA666-(GF+Z)45

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 66+PA 6, MHRS, 14-060, GF30+Z15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>6500 / 3000</b>	MPa	ISO 527-1/-2
Stress at break	<b>100 / 70</b>	MPa	ISO 527-1/-2
Strain at break	<b>4 / 8</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>40 / 50</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>30 / 30</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>4 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>3 / 3</b>	kJ/m <sup>2</sup>	ISO 179/1eA

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>190 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>70 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>30 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>100 / -</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>220</b>	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>5 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2 / -</b>	%	Sim. to ISO 62
Density	<b>1460 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.4 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.8 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules

**Regional Availability**

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

**Product Attributes**

Improved friction & wear properties

**Automotive**

Automotive electr. and electronics, lighting, Powertrain and Chassis , Interior

**Industry & Consumer goods**

Mechanical Engineering, Power transmission, Sports & Leisure, Tools & Accessories