

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	6500 / 3000	MPa	ISO 527-1/-2
Stress at break	100 / 70	MPa	ISO 527-1/-2
Strain at break	4 / 8	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / 30	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	kJ/m ²	ISO 179/1eA

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)	190 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	70 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	30 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	100 / -	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)	90 - 110	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

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

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