

Grilon TSGZ-15/4

PA666-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA66+PA6-Hi,MHR,14-060N,GF15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	5800 / 3100	MPa	ISO 527-1/-2
Yield stress	- / 70	MPa	ISO 527-1/-2
Yield strain	- / 5	%	ISO 527-1/-2
Nominal strain at break	- / 10	%	ISO 527-1/-2
Stress at break	110 / 65	MPa	ISO 527-1/-2
Strain at break	4 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / 5	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)	225 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	65 / -	°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)	110 / -	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 - 120	°C	ISO 2578
Max. usage temperature (short term)	220	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	30 / 27	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / -	%	Sim. to ISO 62
Humidity absorption	2 / -	%	Sim. to ISO 62
Density	1200 / -	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)	0.7 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Automotive

Powertrain and Chassis , Interior

Delivery form

Granules

Electricals & Electronics

Electrical appliances, Connectors

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Special Characteristics

High impact or impact modified

Regional Availability

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

Industry & Consumer goods

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