

Grilon TSG-15/4

PA666-GF15

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 66+PA6, MHR, 14-060N, GF 15

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	6000 / 4500	MPa	ISO 527-1/-2
Stress at break	120 / 85	MPa	ISO 527-1/-2
Strain at break	3 / 5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 11	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	160 / 90	MPa	ISO 2039-1

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)	210 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	80 / -	°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)	80 / -	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)	180	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	6 / -	%	Sim. to ISO 62
Humidity absorption	2.5 / -	%	Sim. to ISO 62
Density	1200 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.8 / -	%	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