

Grilon TSG-60

PA666-GF60

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 66+PA 6, MHR, 14-190 N, GF60

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	20000 / 13500	MPa	ISO 527-1/-2
Stress at break	220 / 155	MPa	ISO 527-1/-2
Strain at break	2 / 2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	100 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	80 / 80	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	265 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	230 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	195 / -	°C	ISO 75-1/-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)	100 - 130	°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	1.1 / -	%	Sim. to ISO 62
Density	1720 / -	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)	0.3 / -	%	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