

Grilon BG-30 EC

PA6-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6, MHRZ, 14-090N, GF 30 X

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	9400 / 5000	MPa	ISO 527-1/-2
Yield stress	115 / 80	MPa	ISO 527-1/-2
Yield strain	3 / 5	%	ISO 527-1/-2
Nominal strain at break	6 / 10	%	ISO 527-1/-2
Stress at break	100 / 80	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / 60	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)	8 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7 / 7	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	170 / 80	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	222 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / -	°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)	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)	80 - 100	°C	ISO 2578
Max. usage temperature (short term)	160	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	25 / -	Ohm*m	IEC 60093
Surface resistivity	- / 100000	Ohm	IEC 60093

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / -	%	Sim. to ISO 62
Humidity absorption	2 / -	%	Sim. to ISO 62
Density	1620 / -	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

Special Characteristics

Anti-static

Delivery form

Granules

Regional Availability

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