

Grilon B 70 GFE 30 H

PA6-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA6-HI, MHR, 14-100N, GF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	10000 / 5800	MPa	ISO 527-1/-2
Stress at break	170 / 100	MPa	ISO 527-1/-2
Strain at break	3.5 / 6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 95	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)	16 / 28	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	170 / 90	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)	195 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	125 / -	°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 - 120	°C	ISO 2578
Max. usage temperature (short term)	160	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	35 / 32	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	7 / -	%	Sim. to ISO 62
Humidity absorption	2 / -	%	Sim. to ISO 62
Density	1320 / -	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)	0.5 / -	%	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

Automotive

Interior

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Special Characteristics

High impact or impact modified

Industry & Consumer goods

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