

Grilon BG-50 FC

PA6-GF50

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6, MHR, 12-190N, GF50

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	17200 / 11500	MPa	ISO 527-1/-2
Stress at break	240 / 155	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	85 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 12	kJ/m ²	ISO 179/1eA

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)	215 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	180 / -	°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 - 120	°C	ISO 2578
Max. usage temperature (short term)	200	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	5 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1580 / -	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

Automotive

Powertrain and Chassis , Interior

Delivery form

Granules

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors

Regional Availability

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

Industry & Consumer goods

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

Product Attributes

Improved flowability and demoulding

