

**Grilon BG-30 FC**

PA6-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 6, MHR, 12-190N, GF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>10000 / 6200</b>	MPa	ISO 527-1/-2
Stress at break	<b>180 / 100</b>	MPa	ISO 527-1/-2
Strain at break	<b>2.5 / 7</b>	%	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>60 / 80</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>55 / 55</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>11 / 15</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>9 / 9</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	<b>230 / 110</b>	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	<b>222 / -</b>	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	<b>210 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	<b>160 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>20 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>110 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>HB / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>110 - 130</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>200</b>	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	<b>1E12 / 1E11</b>	Ohm*m	IEC 60093
Surface resistivity	<b>- / 1E12</b>	Ohm	IEC 60093
Electric strength	<b>40 / 37</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>- / 500</b>	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>7 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>2 / -</b>	%	Sim. to ISO 62
Density	<b>1350 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.1 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.6 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Automotive**

Air intake systems, Powertrain and Chassis , Interior

**Delivery form**

Granules

**Electricals & Electronics**

Electrical appliances, Electrical equipment, Connectors

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**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

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