

**Grilon BM-30 FR**

PA6-MD30 FR

EMS-GRIVORY | a unit of EMS-CHEMIE AG

**Product Texts**

Product designation according to ISO 1874:

PA 6, MFHR, 14-060N, MD 30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	<b>6400 / 2800</b>	MPa	ISO 527-1/-2
Yield stress	<b>85 / 40</b>	MPa	ISO 527-1/-2
Yield strain	<b>3 / 6</b>	%	ISO 527-1/-2
Nominal strain at break	<b>2.5 / 45</b>	%	ISO 527-1/-2
Stress at break	<b>85 / 34</b>	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	<b>40 / 85</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>35 / 35</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>3 / 4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>2 / 2</b>	kJ/m <sup>2</sup>	ISO 179/1eA

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>100 / -</b>	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	<b>50 / -</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>70 / -</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>80 / -</b>	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	<b>V-2 / -</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / -</b>	mm	IEC 60695-11-10
Max. usage temperature (long term)	<b>80 - 110</b>	°C	ISO 2578
Max. usage temperature (short term)	<b>160</b>	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	<b>8 / -</b>	%	Sim. to ISO 62
Humidity absorption	<b>3 / -</b>	%	Sim. to ISO 62
Density	<b>1370 / -</b>	kg/m <sup>3</sup>	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	<b>0.8 / -</b>	%	ISO 294-4, 2577
Molding shrinkage (normal)	<b>0.9 / -</b>	%	ISO 294-4, 2577

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Granules

**Special Characteristics**

Flame retardant, Improved UV resistance (outdoor use)

**Regional Availability**

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

**Electricals & Electronics**

Electrical equipment, Connectors, Energy distribution

**Burning Behaviour**

UL V2