

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	6400 / 2800	MPa	ISO 527-1/-2
Yield stress	85 / 40	MPa	ISO 527-1/-2
Yield strain	3 / 6	%	ISO 527-1/-2
Nominal strain at break	2.5 / 45	%	ISO 527-1/-2
Stress at break	85 / 34	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	2 / 2	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)	100 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	50 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	70 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	80 / -	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	V-2 / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	80 - 110	°C	ISO 2578
Max. usage temperature (short term)	160	°C	EMS

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

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

