

Grilon BG-30 FR

PA6-GF30 FR

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6, MFHR, 14-070 N, GF 30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	7000 / 4500	MPa	ISO 527-1/-2
Stress at break	100 / 60	MPa	ISO 527-1/-2
Strain at break	6 / 50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	50 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 6	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	165 / 70	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)	185 / -	°C	ISO 75-1/-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	7 / -	%	Sim. to ISO 62
Humidity absorption	2.5 / -	%	Sim. to ISO 62
Density	1390 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.4 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.8 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Granules

Electricals & Electronics

Electrical equipment, Connectors, Energy distribution

Special Characteristics

Flame retardant

Burning Behaviour

UL V2