

Grivory XE 4102 black 9238

PA*-CF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 10T/X, MH, 18-120, CF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	23000 / 23000	MPa	ISO 527-1/-2
Stress at break	250 / 250	MPa	ISO 527-1/-2
Strain at break	2 / 2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / 8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 6	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	250 / 250	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	295 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	270 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	210 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	10 / -	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	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	150	°C	ISO 2578
Max. usage temperature (short term)	250	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	50 / 50	Ohm*m	IEC 60093
Surface resistivity	- / 15	Ohm	IEC 60093
Electric strength	3 / 3	kV/mm	IEC 60243-1

Other properties	dry / cond	Unit	Test Standard
Water absorption	2.5 / -	%	Sim. to ISO 62
Humidity absorption	1.2 / -	%	Sim. to ISO 62
Density	1260 / -	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)	0.6 / -	%	ISO 294-4, 2577

Characteristics
Processing

Injection Molding

Delivery form

Granules

Product Attributes

Hydrolysis resistant, Improved alcohol resistance, Bio based Polyamide, Co Polyamide, Partially aromatic Polyamide

Automotive

Powertrain and Chassis

Special Characteristics

Improved heat resistance

Regional Availability

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

Electricals & Electronics

Electrical equipment

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Sanitary, water and gas supply