

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/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / 60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8/8	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6/6	kJ/m²	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/m³	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	Product Attributes
Injection Molding	Hydrolysis resistant, Improved alcohol resistance, Bio based Polyamide, Co Polyamide, Partially aromatic Polyamide
Delivery form	
Creatiles	Automotive
Granules	Powertrain and Chassis

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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

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