

# Grivory XE 4120 black 9916

EMS-GRIVORY | a unit of EMS-CHEMIE AG

## **Product Texts**

Product designation according to ISO 1874: PA 10T/X, MHF, 11-100, GF30

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	11500 / 11500	MPa	ISO 527-1/-2
Stress at break	150 / 145	MPa	ISO 527-1/-2
Strain at break	2/2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	55 / 50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45 / 45	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	255 / 255	MPa	ISO 2039-1
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	315 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	160 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	20 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	55 / -	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / -	class	IEC 60695-11-10
Thickness tested	1.5 / -	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / -	class	IEC 60695-11-10
Thickness tested	0.3 / -	mm	IEC 60695-11-10
Max. usage temperature (long term)	150	°C	ISO 2578
Max. usage temperature (short term)	250	°C	EMS
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Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 60093
Surface resistivity	-/1E11	Ohm	IEC 60093
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112
Comparative tracking index	-7000		120 00112
Other properties	dry / cond	Unit	Test Standard
Water absorption	2.2 / -	%	Sim. to ISO 62
Humidity absorption	1.1 / -	%	Sim. to ISO 62
Density	1430 / -	kg/m³	ISO 1183
Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.8 / -	%	ISO 294-4, 2577
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# Characteristics

Processing

Automotive

Injection Molding

Air intake sytems, Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Fuel systems, Interior

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Page: 1/2

## Delivery form

Granules

## Special Characteristics

Improved heat resistance

# Regional Availability

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

# **Product Attributes**

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

# Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting, Mobile phones and other portable devices

# Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Power transmission, Tools & Accessories

# Burning Behaviour

UL V0