

Grilamid XE 4128 black 9221

PA610

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product-nomenclature according to ISO 1874:

PA610+X-HI, EH, 22-010

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1200 / 700	MPa	ISO 527-1/-2
Yield stress	35 / -	MPa	ISO 527-1/-2
Yield strain	10 / -	%	ISO 527-1/-2
Stress at break	35 / 30	MPa	ISO 527-1/-2
Strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	17 / 18	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	60 / 35	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	220 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	80 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	100 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	150 / -	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 (short term)	160	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E11 / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	33 / 32	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	4.8 / -	%	Sim. to ISO 62
Humidity absorption	1.8 / -	%	Sim. to ISO 62
Density	1040 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	1.2 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	1.1 / -	%	ISO 294-4, 2577

Characteristics

Processing

Other Extrusion

Delivery form

Granules

Product Attributes

Bio based Polyamide

Automotive

Air intake systems, Compressed air systems, Hydraulic systems

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Special Characteristics

Improved heat resistance

Industry & Consumer goods

Hydraulics & Pneumatics

Regional Availability

North America, Europe, Asia Pacific
