

Grilamid L XE 10987 black 9225

PA12-GB

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product Nomenclature:

ISO 16396-PA12+X,GB30,M1H,C18-030

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2700 / 2600	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	80 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	30 / 150	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	178 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	80 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	145 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	80 / -	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

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	40 / 40	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.7 / -	%	Sim. to ISO 62
Humidity absorption	0.8 / -	%	Sim. to ISO 62
Density	1220 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.9 / -	%	ISO 294-4, 2577

Characteristics

Processing

Injection Molding

Industry & Consumer goods

Sanitary, water and gas supply

Delivery form

Granules

Food Contact

EU Requirements, FDA

Regional Availability

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

Potable Water Contact

NSF 61, KTW, WRAS, ACS, DVGW W270

Product Attributes

Hydrolysis resistant

