

Grilamid XE 4074 nat
PA12-GB

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	3700 / 3000	MPa	ISO 527-1/-2
Stress at break	50 / 50	MPa	ISO 527-1/-2
Strain at break	10 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / 60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	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)	50 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	70 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	70 / -	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)	90 - 120	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.1 / -	%	Sim. to ISO 62
Humidity absorption	0.5 / -	%	Sim. to ISO 62
Density	1490 / -	kg/m ³	ISO 1183

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