

Grilamid XE 3841 nat PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 12-HI, EH; 18-005

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	- / 350	MPa	ISO 527-1/-2
Yield stress	- / 20	MPa	ISO 527-1/-2
Yield strain	- / 15	%	ISO 527-1/-2
Nominal strain at break	- / >50	%	ISO 527-1/-2
Stress at break	- / 30	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	- / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	- / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / N	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	- / 53	-	ISO 868

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)	40 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	45 / -	°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)	160 / -	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)	80 - 100	°C	ISO 2578
Max. usage temperature (short term)	130	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E10	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	- / 43	kV/mm	IEC 60243-1
Comparative tracking index	- / 575	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.1 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62
Density	990 / -	kg/m ³	ISO 1183

Characteristics

Processing

Other Extrusion

Product Attributes

Flexible

Delivery form

Granules

Industry & Consumer goods

Housewares, Hydraulics & Pneumatics, Mechanical Engineering

Special Characteristics

High impact or impact modified

Food Contact

EU Requirements



Regional Availability

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

