

Grilamid XE 4073 nat
 PA610

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

 Product-nomenclature according to ISO 1874:
 PA 610, MHLR, 22-020N

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2200 / 1300	MPa	ISO 527-1/-2
Stress at break	65 / 45	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)	7 / 13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / 5	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	128 / 82	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	222 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	55 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	140 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	110 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	90 / -	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)	100 - 130	°C	ISO 2578
Max. usage temperature (short term)	160	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E9 / 1E9	Ohm*m	IEC 60093
Surface resistivity	- / 1E10	Ohm	IEC 60093
Electric strength	35 / 30	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	3.5 / -	%	Sim. to ISO 62
Humidity absorption	1.5 / -	%	Sim. to ISO 62
Density	1080 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	1.3 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	1.4 / -	%	ISO 294-4, 2577

Characteristics
Processing

Injection Molding, Extrusion - cast film, Other Extrusion, Profile Extrusion, Sheet Extrusion, Calandring

Delivery form

Granules

Product Attributes

Bio based Polyamide

Automotive

Compressed air systems, Hydraulic systems, Automotive electr. and electronics, lighting, Powertrain and Chassis , Interior, Exterior



Additives

Release agent

Special Characteristics

Light stabilized or stable to light

Regional Availability

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

Electricals & Electronics

Electrical appliances, Cables & Tubes, Connectors

Industry & Consumer goods

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

