

Grilamid TR 30 LS nat

PA*

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 6I/X , GT, 12-030

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	- / 2800	MPa	ISO 527-1/-2
Yield stress	- / 90	MPa	ISO 527-1/-2
Yield strain	- / 6	%	ISO 527-1/-2
Strain at break	- / >50	%	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)	- / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 12	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Ball indentation hardness	- / 160	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
Glass transition temperature (10°C/min)	160 / -	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	125 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	135 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	60 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	60 / -	E-6/K	ISO 11359-1/-2
Max. usage temperature (long term)	80 - 100	°C	ISO 2578
Max. usage temperature (short term)	120	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	- / 27	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	9 / -	%	Sim. to ISO 62
Humidity absorption	3.5 / -	%	Sim. to ISO 62
Density	1150 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.7 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.7 / -	%	ISO 294-4, 2577

Characteristics
Processing

Injection Molding

Delivery form

Granules

Additives

Lubricants

Automotive

Compressed air systems, Automotive electr. and electronics, lighting, Cooling and climate control, Fuel systems, Powertrain and Chassis , Interior

Electricals & Electronics

Electrical appliances, Electrical equipment, Connectors, Energy distribution, Lighting, Mobile phones and other portable devices

Special Characteristics

Flame retardant

Regional Availability

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

Product Attributes

Barrier Properties, Hydrolysis resistant, Co Polyamide, Partially
aromatic Polyamide, Transparent Polyamide

Industry & Consumer goods

Medical devices

Packaging

Injectionstretchblowmoulded containers

Food Contact

EU Requirements, FDA