

Grilamid LV-3 ESD

PA12-GF30

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA 12, MHRZ, 18-080, GF30+C

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	7800 / 7000	MPa	ISO 527-1/-2
Stress at break	125 / 110	MPa	ISO 527-1/-2
Strain at break	5 / 7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	70 / 65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / 15	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 10	kJ/m ²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	83 / 81	-	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)	160 / -	°C	ISO 75-1/-2
Temp. of deflection under load (8.00 MPa)	90 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	50 / -	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	120 / -	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

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	10000 / 10000	Ohm*m	IEC 60093
Surface resistivity	- / 1000000	Ohm	IEC 60093

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.1 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62
Density	1280 / -	kg/m ³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.1 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	0.8 / -	%	ISO 294-4, 2577

Characteristics
Processing

Injection Molding

Delivery form

Granules

Special Characteristics

Anti-static, High impact or impact modified, Improved UV resistance (outdoor use), Improved heat resistance

Regional Availability

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

Product Attributes

Hydrolysis resistant

Automotive

Fuel systems