

Grilamid L 20 W 20 grey 9280

PA12

EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product designation according to ISO 1874:

PA12-P, GHL, 18-005

Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	650 / 500	MPa	ISO 527-1/-2
Yield stress	30 / 30	MPa	ISO 527-1/-2
Yield strain	20 / 20	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Stress at break	60 / 60	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 40	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	- / 3	kJ/m²	ISO 179/1eA

Mechanical properties (TPE)	dry / cond	Unit	Test Standard
Shore D hardness (15s)	- / 64	-	ISO 868

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature (10°C/min)	174 / -	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	45 / -	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	100 / -	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	140 / -	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 - 110	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	- / 1E11	Ohm*m	IEC 60093
Surface resistivity	- / 1E12	Ohm	IEC 60093
Electric strength	- / 32	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.5 / -	%	Sim. to ISO 62
Humidity absorption	0.7 / -	%	Sim. to ISO 62
Density	1030 / -	kg/m³	ISO 1183

Rheo/Phys properties	dry / cond	Unit	Test Standard
Molding shrinkage (parallel)	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage (normal)	1.0 / -	%	ISO 294-4, 2577

Characteristics

Processing

Other Extrusion

Delivery form

Granules

Product Attributes

Flexible, Improved friction & wear properties

Automotive

Powertrain and Chassis



Additives

Plasticizer

Electricals & Electronics

Cables & Tubes

Regional Availability

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

Industry & Consumer goods

Mechanical Engineering

