TECHNICAL DATASHEET

Grilamid L 20 G HL black 9288

PA12

EMS-GRIVORY
Material Database

Processing
Injection molding

Delivery form
Granules

Special Characteristics
Light stabilized or stable to light

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

Product Information

Product designation according to ISO 1874:
PA 12, GHLR, 18-010N

Mechanical Properties	dry/cond	Unit	Standard
Tensile modulus	1600 / 1100	MPa	ISO 527
Yield stress	45 / 40	MPa	ISO 527
Yield strain	7.5 / 12	%	ISO 527
Nominal strain at break	>50 / >50	%	ISO 527
Stress at break	45 / 50	MPa	ISO 527
Charpy impact strength, +23°C	N / -	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 7	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / 6	kJ/m²	ISO 179/1eA
Shore D hardness	70 / -		ISO 7619-1
Ball indentation hardness	- / 70	MPa	ISO 2039-1

Thermal Properties	dry/cond	Unit	Standard
Melting temperature, 10°C/min	178 / -	°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	115 / -	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	138 / -	°C	ISO 306
Max. usage temperature (long term)	90 - 110	°C	ISO 2578
Max. usage temperature (short term)	≤150	°C	EMS

Electrical Properties	dry/cond	Unit	Standard
Electric strength	- / 32	kV/mm	IEC 60243-1
Comparative tracking index	- / 550		IEC 60112
Volume resistivity	- / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E12	Ohm	IEC 62631-3-2

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General Properties	dry/cond	Unit	Standard
Density	1.01 / -	kg/m³	ISO 1183
Burning behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	
Water absorption	1.5 / -	%	Sim. to ISO 62
Humidity absorption	0.7 / -	%	Sim. to ISO 62
Molding shrinkage, parallel	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.85 / -	%	ISO 294-4, 2577

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