TECHNICAL DATASHEET

Grilamid L 25 W 40 ESD black

PA12-I

EMS-GRIVORY
Material Database

Processing
Other extrusion

Delivery form
Granules

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

Product Information

Product-nomenclature:
ISO 16396-PA12-P,,EHZ,C24-005

Mechanical Properties	dry/cond	Unit	Standard
Tensile modulus	- / 350	MPa	ISO 527
Yield stress	- / 25	MPa	ISO 527
Yield strain	- / 20	%	ISO 527
Nominal strain at break	- / >50	%	ISO 527
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	N / N	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / 9	kJ/m²	ISO 179/1eA
Shore D hardness	63 / -		ISO 7619-1
Shore A hardness (15s)	- / 63	-	ISO 868

Thermal Properties	dry/cond	Unit	Standard
Melting temperature, 10°C/min	173 / -	°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	95 / -	°C	ISO 75-1/-2
Max. usage temperature (long term)	95	°C	ISO 2578
Max. usage temperature (short term)	150	°C	EMS

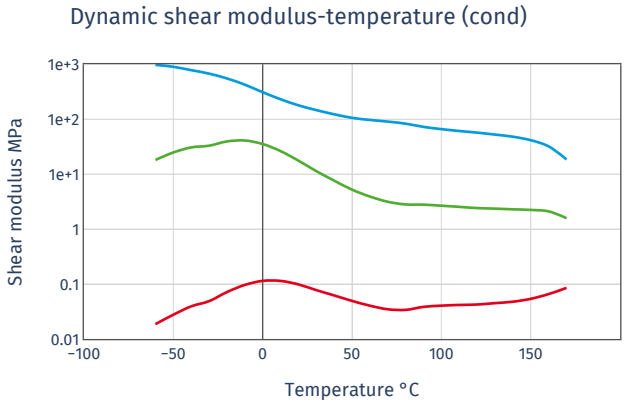
Electrical Properties	dry/cond	Unit	Standard
Electric strength	14 / 12	kV/mm	IEC 60243-1
Comparative tracking index	- / 150		IEC 60112
Volume resistivity	- / 1000	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E6	Ohm	IEC 62631-3-2

General Properties	dry/cond	Unit	Standard
Density	1040 / -	kg/m³	ISO 1183
Burning behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	

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General Properties	dry/cond	Unit	Standard
Water absorption	1.2 / -	%	Sim. to ISO 62
Humidity absorption	0.6 / -	%	Sim. to ISO 62
Molding shrinkage, parallel	1.1 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / -	%	ISO 294-4, 2577

Diagrams



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