TECHNICAL DATASHEET

Grilamid L XE 10951 black 9992

PA12

EMS-GRIVORY
Material Database

Physical
Low moisture absorption

Mechanical
Good abrasion resistance

Processing
Coating, 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,,EHL1,C18-010

Mechanical Properties	dry/cond	Unit	Standard
Tensile modulus	1500 / 1000	MPa	ISO 527
Yield stress	40 / 35	MPa	ISO 527
Yield strain	5 / 12	%	ISO 527
Nominal strain at break	>50 / >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	15 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	7 / 7	kJ/m²	ISO 179/1eA
Ball indentation hardness	80 / 65	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	65 / -	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	125 / -	°C	ISO 75-1/-2

Electrical Properties	dry/cond	Unit	Standard
Electric strength	40 / 40	kV/mm	IEC 60243-1
Comparative tracking index	- / 600		IEC 60112
Volume resistivity	1E10 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E11	Ohm	IEC 62631-3-2

General Properties	dry/cond	Unit	Standard
Density	1000 / -	kg/m³	ISO 1183
Burning behav. at thickness h	HB / -	class	IEC 60695-11-10
Thickness tested	0.8 / -	mm	
Water absorption	1.4 / -	%	Sim. to ISO 62
Humidity absorption	0.8 / -	%	Sim. to ISO 62

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Processing Extrusion	Value	Unit	Standard
Length	24 - 25	mm	
Compression ratio	2 - 2.5		
Conveying zone	220 - 240	°C	
Compression zone	230 - 250	°C	
Metering zone	230 - 250	°C	
Melt	230 - 250	°C	
Die	230 - 250	°C	
Adapter	230 - 250	°C	

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Created: Aug 25, 2026