Grilamid L XE 10951 black 9992

PA12 EMS-GRIVORY | a unit of EMS-CHEMIE AG

Product Texts

Product nomenclature: ISO 16396-PA12,,EHL1,C18-010

Product Attributes

Improved heat resistance, Improved UV resistance (outdoor use)

Markets

Electricals & Electronics
Cables & Tubes

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1500 / 1000**	MPa	ISO 527
[C] Yield stress	**40 / 35**	MPa	ISO 527
[C] Yield strain	**5 / 12**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**15 / 15**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**7 / 7**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**178 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**65 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**125 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**120 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**120 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E10 / 1E10**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E11**	Ohm	IEC 62631-3-2
[C] Electric strength	**40 / 40**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**- / 600**	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.4 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.8 / ***	%	Sim. to ISO 62
[C] Density	**1000 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Sheet Extrusion, Other Extrusion, Coating

Applications
Electrical and Electronical

Delivery form
Granules, Black

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

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat