

Product Texts

Product-nomenclature: ISO 16396-PA610,,EH,S22-010

Bio based Polyamide

Product Attributes

High viscosity, Improved impact resistance, Improved heat resistance,
Improved UV resistance (outdoor use)

Markets

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Fuel systems, Powertrain and Chassis

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics, Mechanical Engineering, Sports & Leisure, Tools & Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
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ISO Data

^[C] Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
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ISO Data

^[C] Tensile Modulus	2200 / 1200	MPa	ISO 527
^[C] Yield stress	60 / 45	MPa	ISO 527
^[C] Yield strain	5 / 18	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8 / 18	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	9 / 8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
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ISO Data

^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	150 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	110 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110 / *	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
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ISO Data

^[C] Volume resistivity	1E9 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E11	Ohm	IEC 62631-3-2
^[C] Electric strength	- / 34	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
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^[C] Water absorption	3.3 / *	%	Sim. to ISO 62
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Grilamid XE 3959 black 9992

PA610

EMS-GRIVORY | a unit of EMS-CHEMIE AG

[C] Humidity absorption	1.6 / *	%	Sim. to ISO 62
[C] Density	1070 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Profile Extrusion, Other Extrusion

Delivery form

Granules, Black

Special Characteristics

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

Certifications

Contains renewable resources

Regional Availability

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