

Product Texts

Product-nomenclature: ISO 16396-PA610 X,,GHL,C18-007

Bio based Polyamide

Product Attributes

Highly flexible, Improved impact resistance, Improved heat resistance,
Improved UV resistance (outdoor use)

Markets

Automotive

Compressed air systems, Hydraulic systems

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics, Sports & Leisure, Tools & Accessories

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	700 / 350	MPa	ISO 527
^[C] Stress at 50% strain	25 / 20	MPa	ISO 527
^[C] 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	110 / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	100 / 110	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	40 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	50 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	170 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	170 / *	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	1E9 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Electric strength	38 / 38	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	3.3 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.3 / *	%	Sim. to ISO 62

[C] Density

1010 / -

kg/m³

ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Granules, Natural Color

Special Characteristics

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

Certifications

Contains renewable resources

Applications

Automotive, Electrical and Electronical, Sports Equipment

Regional Availability

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