

Product Texts

Product-nomenclature: ISO 16396-PA610-IP,,EH,C22-007

Bio based Polyamide

Product Attributes

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

Markets

Automotive

Air intake systems, Compressed air systems, Hydraulic systems, Fuel systems

Electricals & Electronics

Cables & Tubes

Industry & Consumer goods

Hydraulics & Pneumatics

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	750 / 450	MPa	ISO 527
^[C] Stress at 50% strain	30 / 25	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	N / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	15 / 15	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	50 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	90 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	180 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	130 / *	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	1E8 / 1E8	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
^[C] Electric strength	40 / 35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.9 / *	%	Sim. to ISO 62

[C] Density

1040 / -kg/m³

ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Profile Extrusion, Other Extrusion

Delivery form

Granules, Natural Color

Additives

Plasticizer

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

Regional Availability

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