

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 | 2.3 / * | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.7 / * | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 700 / 400 | 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 | 1E10 / 1E9 | 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 | 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