

Product Texts

Product-nomenclature according to ISO 1874:
PA612, EM, 22-020

Product Attributes

High viscosity, Improved heat resistance

Markets

Industry & Consumer goods

Housewares, Mechanical Engineering, Tools & Accessories

Approvals

Food Contact

EU Requirements, FDA

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|------------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 1.7 / * | % | 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 | 2300 / 1600 | MPa | ISO 527 |
| ^[C] Yield stress | 60 / 50 | MPa | ISO 527 |
| ^[C] Yield strain | 4 / 16 | % | 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 | 5 / 10 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 6 / 6 | kJ/m ² | ISO 179/1eA |
| ^[C] Shore D hardness | 81 / * | - | ISO 7619-1 |
| ^[C] : CAMPUS | | | |

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 218 / * | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 60 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 130 / * | °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 | 90 / * | 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 | 32 / 32 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | - / 600 | - | IEC 60112 |
| ^[C] : CAMPUS | | | |

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|------------|-------------------|----------------|
| ^[C] Water absorption | 2.8 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 1.3 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1060 / - | kg/m ³ | ISO 1183 |
| ^[C] : CAMPUS | | | |

Characteristics**Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Granules, Natural Color

Special Characteristics

Light stabilized or stable to light, Heat stabilized or stable to heat

Certifications

Food contact, Food approval FDA 21 CFR

Regional Availability

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