

Product Texts

High Viscosity, Heat Stabilized

ISO 1043 PA66

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 3000 / - | MPa | ISO 527 |
| ^[C] Yield stress | 80 / - | MPa | ISO 527 |
| ^[C] Yield strain | 4 / - | % | ISO 527 |
| ^[C] Nominal strain at break | 30 / - | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | N / - | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | N / - | kJ/m ² | ISO 179/1eU |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 70 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 215 / * | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 90 / * | E-6/K | ISO 11359-1/-2 |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|------------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 3.6 / - | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 3.3 / - | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 90 / - | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 220 / - | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | 1E13 / - | Ohm*m | IEC 62631-3-1 |
| ^[C] Electric strength | 25 / - | kV/mm | IEC 60243-1 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|------------|-------------------|----------------|
| ^[C] Water absorption | 9 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 2.5 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1140 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

| Film Properties | dry / cond | Unit | Test Standard |
|---|------------|--|----------------|
| ISO Data | | | |
| ^[C] WVTR, 23°C/85%r.h. | 24 / * | g/(m ² *d) | ISO 15106-1/-2 |
| ^[C] Oxygen transmission rate, 23°C/0%r.h. | 27 / * | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| ^[C] Oxygen transmission rate, 23°C/85%r.h. | 41 / * | cm ³ /(m ² *d*bar) | ISO 15105-1/-2 |
| ^[C] Thickness of specimen | 0.06 / * | mm | - |

[C]: CAMPUS

| Material specific properties | dry / cond | Unit | Test Standard |
|---------------------------------|------------|--------------------|---------------------|
| ISO Data | | | |
| ^[C] Viscosity number | 280 / * | cm ³ /g | ISO 307, 1157, 1628 |

[C]: CAMPUS

Characteristics**Processing**

Film Extrusion, Profile Extrusion, Other Extrusion

Certifications

Food contact

Akulon® S240-CH

PA66

Envalior

Delivery form

Pellets

Regional Availability

Europe

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection molding

[Injection Molding Recommendations](#)

Film extrusion

[Processing of Akulon® Film Grades](#)