

Acrylic

Excellent material for decoration and recommended for anything involving fabrication or processing (machining).

Part numbers

ST-PN-008-0002
ST-PN-008-0003
ST-PN-008-0004

Finish

Gloss (with protective film)

Colors Available

White



Black



Material Specifications

| | | Test Method | Specifications | |
|------------|---|--------------|-------------------|----------|
| THERMAL | Vicat softening point | 306 | °C | 115 |
| | Linear expansion coefficient α for 0 – 50 °C | 62 | % | 0.07 |
| | thermal conductivity λ | DIN 52612 | W/mK | 0.19 |
| | molding temperature | - | °C | 160-175 |
| | Max Continuous use temperature | - | °C | 80 |
| | Heat Deflection Temperature at 1.8 MPa bending stress | 75 | °C | 105 |
| | Heat Deflection Temperature at 0.45 MPa bending stress | 75 | °C | 113 |
| MECHANICAL | Tensile Strength | 527-2 | MPa | 80 |
| | Elongation at yield | 527-2 | % | 5.5 |
| | Flexural strength | 178 | MPa | 115 |
| | Modulus of elasticity | 527-2 | MPa | 3300 |
| | Charpy Impact Strength Notched | 179-1 | kJ/m ² | 15 |
| | Izod Impact Strength | 180-1 | kJ/m ² | 1.6 |
| | ball indentation hardness H961/30 | 2039-1 | MPa | 175 |
| ELECTRICAL | specific volume resistance ρ_D | DIN VDE 0303 | Ohm-cm | >10E15 |
| | surface resistance | DIN VDE 0303 | Ohm | 5.00E+13 |
| | Dielectric Constant | DIN VDE 0303 | - | 3.6 |
| | Dielectric Strength | DIN VDE 0303 | kV/mm | ~30 |
| | Dielectric Loss Factor | DIN VDE 0303 | - | 0.06 |
| OTHER | Density | 1183 | g/cm ³ | 1.19 |
| | Transmittance TD65 | DIN 5036 | % | ~92 |
| | Refractive Index nD20 | 489 | - | 1.491 |
| | Water Absorption (24h at 23C, 60x60x2 mm ³ sample) | 62 | mg | 41 |
| | Max weight gain after water storage | 62 | % | 2.1 |