**STAREX TX-0510T**

MABS | Lotte Chemical Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melt flow index, MFI | **16** | g/10min | ISO 1133 |
| Temperature | **220** | °C | - |
| Load | **10** | kg | - |
| **ASTM Data** | | | |
| Melt Flow Index, MFI | **16** | g/10min | ASTM D 1238 |
| Temperature | **220** | °C | - |
| Load | **10** | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **2200** | MPa | ISO 527 |
| Yield stress | **47** | MPa | ISO 527 |
| Stress at break | **35** | MPa | ISO 527 |
| Strain at break | **16** | % | ISO 527 |
| Flexural modulus, 23°C | **2200** | MPa | ISO 178 |
| Flexural strength | **70** | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | **13** | kJ/m² | ISO 179/1eA |
| Izod notched impact strength, +23°C | **12** | kJ/m² | ISO 180/1A |
| Rockwell hardness | **R 110** | - | ISO 2039-2 |
| **ASTM Data** | | | |
| Tensile Strength at Yield | **44** | MPa | ASTM D 638 |
| Flexural Modulus | **2100** | MPa | ASTM D 790 |
| Flexural Strength | **64** | MPa | ASTM D 790 |
| Rockwell Hardness | **R 109** | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | **150** | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **70** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **83** | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | **88** | °C | ISO 306 |
| Burning behav. at 1.5 mm nom. thickn. | **HB** | class | IEC 60695-11-10 |
| Thickness tested | **1.5** | mm | - |
| Burning behav. at thickness h | **HB** | class | IEC 60695-11-10 |
| Thickness tested | **3.0** | mm | - |
| **ASTM Data** | | | |
| UL 94 Flame rating | **HB** | - | UL 94 |
| Thickness tested | **1.5** | mm | - |

| Optical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Haze | **2.8** | % | ASTM D 1003 |
| Light Transmittance | **88** | % | ASTM D 1003 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1100** | kg/m³ | ISO 1183 |
| Density | **1100** | kg/m³ | ASTM D 792 |

| Processing Recommendation Extrusion | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **80** | °C | - |
| Pre-drying - Time | **4 - 6** | h | - |
| Processing humidity | **≤0.05** | % | - |
| Melt temperature | **220** | °C | - |
| Mold temperature | **50 - 70** | °C | - |
| Zone 1 | **180 - 190** | °C | - |
| Zone 2 | **200 - 210** | °C | - |

| | | | |
|---|---|---|---|
| Zone 3 | **220 - 230** | °C | - |
| Nozzle temperature | **230** | °C | - |

## Characteristics

**Processing**
Other Extrusion

**Applications**
Electrical and Electronical

**Delivery form**
Pellets, Natural Color

**Regional Availability**
North America, Europe, Asia Pacific