



| Starex TX-0520T | | | |
|--|-----------------|--------------------------|----------------------|
| ABS | | Samsung Cheil Industries | |
| Processing/Physical Characteristics | | | |
| ASTM Data | Value | Unit | Test Standard |
| Melt Flow Index | 15 | g/10min | ASTM D 1238 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Density, 73°F | 1100 | kg/m ³ | ASTM D 792 |
| Rheological properties | | | |
| ISO Data | Value | Unit | Test Standard |
| Melt flow index, MFI | 15 | g/10min | ISO 1133 |
| MFI temperature | 220 | °C | ISO 1133 |
| MFI load | 10 | kg | ISO 1133 |
| Mechanical properties | | | |
| ISO Data | Value | Unit | Test Standard |
| Tensile Modulus | 2100 | MPa | ISO 527-1/-2 |
| Yield stress | 47 | MPa | ISO 527-1/-2 |
| Yield strain | 15 | % | ISO 527-1/-2 |
| Stress at break | 34 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength (+23°C) | 12 | kJ/m ² | ISO 179/1eA |
| Flexural modulus (23°C) | 2200 | MPa | ISO 178 |
| Izod Impact notched, 23°C | 12 | kJ/m ² | ISO 180/1A |
| Rockwell hardness | R 110 | - | ISO 2039-2 |
| ASTM Data | | | |
| Tensile Strength at Yield | 42 | MPa | ASTM D 638 |
| Flexural Modulus | 2000 | MPa | ASTM D 790 |
| Flexural Strength | 59 | MPa | ASTM D 790 |
| Rockwell Hardness | R 106 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 0.16 | kJ/m | ASTM D 256 |
| Thermal properties | | | |
| ISO Data | Value | Unit | Test Standard |
| Temp. of deflection under load (1.80 MPa) | 71 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 81 | °C | ISO 75-1/-2 |
| Vicat softening temperature, 50°C/h 50N | 87 | °C | ISO 306 |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| Other properties | | | |
| ISO Data | Value | Unit | Test Standard |
| Density | 1100 | kg/m ³ | ISO 1183 |
| Optical properties | | | |
| ASTM Data | Value | Unit | Test Standard |
| Haze | 3 | % | ASTM D 1003 |
| Light Transmittance | 88 | % | ASTM D 1003 |
| Characteristics | | | |
| Delivery form | Features | | |
| Pellets, Natural Color | Low Odor | | |