Tisan

# TECHNICAL DATA SHEET

# TİSLAMİD®

**PRODUCT CODE** : **M01000030**
**PRODUCT DESCRIPTION** : **PA6, UNREINFORCED, HEAT STABILIZED, BLACK FOR INJECTION MOLDING**

| | PROPERTIES | CONDITION | STANDARD | UNITS | VALUE |
|---|---|---|---|---|---|
| PHYSICAL | DENSITY | - | ISO 1183 | g/cm$^3$ | **1.13-1.15** |
| | MOLDING SHRINKAGE | PARALLEL | ISO 294-4 | % | **1.0-1.2** |
| | MOISTURE CONTENT | - | ISO 15512 | % | **<0.2** |

| | PROPERTIES | CONDITION | STANDARD | UNITS | VALUE |
|---|---|---|---|---|---|
| MECHANICAL | YIELD STRENGTH | +23°C | ISO 527-2 | MPa | **65-75** |
| | TENSILE STRESS AT BREAK | +23°C | ISO 527-2 | MPa | **-** |
| | TENSILE STRAIN AT BREAK | +23°C | ISO 527-2 | % | **>15** |
| | TENSILE MODULUS | +23°C | ISO 527-2 | MPa | **2800-3500** |
| | IZOD IMPACT STRENGTH, NOTCHED | +23°C | ISO 180/A | kJ/m$^2$ | **4-7** |

| | PROPERTIES | CONDITION | STANDARD | UNITS | VALUE |
|---|---|---|---|---|---|
| THERMAL | VICAT SOFTENING TEMPERATURE | 50 N | ISO 306 | °C | **195** |
| | HEAT DEFLECTION TEMPERATURE | 0,45 MPa | ISO 75 | °C | **175** |
| | HEAT DEFLECTION TEMPERATURE | 1,80 MPa | ISO 75 | °C | **60** |
| | MELTING TEMPERATURE | 10 K/min | ISO 11357 | °C | **220-225** |

Tisan

# TECHNICAL DATA SHEET

# TİSLAMİD®

**PRODUCT CODE** : **M01000030**
**PRODUCT DESCRIPTION** : **PA6, UNREINFORCED, HEAT STABILIZED, BLACK FOR INJECTION MOLDING**

| ELECTRICAL&FLAMMABILITY | PROPERTIES | CONDITION | STANDARD | UNITS | VALUE |
|---|---|---|---|---|---|
| | FLAME RATING | 0,75 mm | UL 94 | - | **-** |
| | FLAME RATING | 1,6 mm | UL 94 | - | **-** |
| | GLOW WIRE FLAMMABILITY INDEX | 2 mm | IEC 60695 | °C | **-** |
| | GLOW WIRE IGNITABILITY TEMPERATURE | 2 mm | IEC 60695 | °C | **-** |
| | COMPARATIVE TRACKING INDEX | Solution A | ISO 60112 | Volt | **-** |
| | VOLUME RESISTIVITY | - | IEC 60093 | Ohm.cm | **1E+15** |
| | SURFACE RESISTIVITY | - | IEC 60093 | Ohm | **1E+13** |

| EXTRUSION PROCESS | PROPERTIES | UNITS | VALUE |
|---|---|---|---|
| | PREDRYING TEMPERATURE | °C | **80-110** |
| | PREDRYING TIME | Hours | **3-4** |
| | MELTING TEMPERATURE | °C | **220-250** |
| | EXTRUSION TEMPERATURE PROFILE_1 | °C | **210-230** |
| | EXTRUSION TEMPERATURE PROFILE_2 | °C | **240-260** |
| | EXTRUSION TEMPERATURE PROFILE_3 | °C | **240-260** |

Data are based on dry conditions