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| <b>PRODUCT CODE</b>        | <b>TİSLAMİD B 40D03 K02 R01</b>                                   |
| <b>PRODUCT DESCRIPTION</b> | <b>PA66, 40% GLASS FIBER REINFORCED, HEAT STABILIZED, NATURAL</b> |

| PHYSICAL | PROPERTIES        | CONDITION       | STANDARD  | UNITS             | VALUE     |
|----------|-------------------|-----------------|-----------|-------------------|-----------|
|          | DENSITY           | -               | ISO 1183  | g/cm <sup>3</sup> | 1.44-1.46 |
|          | MOLDING SHRINKAGE | PARALLEL/NORMAL | ISO 294-4 | %                 | 0.10/0.25 |
|          | MOISTURE CONTENT  | -               | ISO 15512 | %                 | <0.2      |

| MECHANICAL | PROPERTIES                      | CONDITION | STANDARD  | UNITS             | VALUE       |
|------------|---------------------------------|-----------|-----------|-------------------|-------------|
|            | YIELD STRENGTH                  | +23°C     | ISO 527-2 | MPa               | -           |
|            | TENSILE STRESS AT BREAK         | +23°C     | ISO 527-2 | MPa               | 190-210     |
|            | TENSILE STRAIN AT BREAK         | +23°C     | ISO 527-2 | %                 | 2-3         |
|            | TENSILE MODULUS                 | +23°C     | ISO 527-2 | MPa               | 11000-13000 |
|            | IZOD IMPACT STRENGTH, NOTCHED   | +23°C     | ISO 180/A | kJ/m <sup>2</sup> | 16-18       |
|            | IZOD IMPACT STRENGTH, NOTCHED   | -30°C     | ISO 180/A | kJ/m <sup>2</sup> | 12-14       |
|            | IZOD IMPACT STRENGTH, UNNOTCHED | +23°C     | ISO 180/U | kJ/m <sup>2</sup> | 80-100      |
|            | IZOD IMPACT STRENGTH, UNNOTCHED | -30°C     | ISO 180/U | kJ/m <sup>2</sup> | 75-86       |

| THERMAL            | PROPERTIES                  | CONDITION      | STANDARD  | UNITS | VALUE   |
|--------------------|-----------------------------|----------------|-----------|-------|---------|
|                    | VICAT SOFTENING TEMPERATURE | 50 N           | ISO 306   | °C    | 255     |
|                    | HEAT DEFLECTION TEMPERATURE | 0,45 MPa       | ISO 75    | °C    | 260     |
|                    | HEAT DEFLECTION TEMPERATURE | 1,80 MPa       | ISO 75    | °C    | 255     |
|                    | MELTING TEMPERATURE         | 10 K/min       | ISO 11357 | °C    | 260-265 |
| BALL PRESSURE TEST | 120 °C                      | ISO 60695-10-2 | -         | -     |         |

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| ELECTRICAL&FLAMMABILITY | PROPERTIES                         | CONDITION  | STANDARD  | UNITS  | VALUE        |
|-------------------------|------------------------------------|------------|-----------|--------|--------------|
|                         | FLAME RATING                       | 0,75 mm    | UL 94     | -      | <b>HB</b>    |
|                         | FLAME RATING                       | 1,6 mm     | UL 94     | -      | <b>HB</b>    |
|                         | 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   | <b>500</b>   |
|                         | VOLUME RESISTIVITY                 | -          | IEC 60093 | Ohm.cm | <b>1E+15</b> |
|                         | SURFACE RESISTIVITY                | -          | IEC 60093 | Ohm    | <b>1E+13</b> |

| INJECTION PROCESS | PROPERTIES                | UNITS | VALUE          |
|-------------------|---------------------------|-------|----------------|
|                   | PREDRYING TEMPERATURE     | °C    | <b>90-110</b>  |
|                   | PREDRYING TIME            | Hours | <b>3-4</b>     |
|                   | MELTING TEMPERATURE       | °C    | <b>260-290</b> |
|                   | NOZZLE TEMPERATURE        | °C    | <b>250-270</b> |
|                   | PRE- 3 REGION TEMPERATURE | °C    | <b>270-290</b> |
|                   | MID-2 REGION TEMPERATURE  | °C    | <b>270-290</b> |
|                   | AFT-1 REGION TEMPERATURE  | °C    | <b>270-290</b> |
|                   | MOLD TEMPERATURE          | °C    | <b>80-100</b>  |
|                   | HOLD PRESSURE             | MPa   | <b>50-100</b>  |

Data are based on dry conditions

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