

ÜRÜN KODU

: ECOSTAR A D03 R02

ÜRÜN AÇIKLAMASI

: PA6, GLASS FIBER REINFORCED, NATURAL

| PHYSICAL | PROPERTIES        | CONDITION | STANDARD  | UNITS             | VALUE    |
|----------|-------------------|-----------|-----------|-------------------|----------|
|          | DENSITY           | -         | ISO 1183  | g/cm <sup>3</sup> | 1.33-138 |
|          | MOLDING SHRINKAGE | PARALLEL  | ISO 294-4 | %                 | <0.3     |
|          | MOISTURE CONTENT  | -         | ISO 15512 | %                 | <0.2     |

| MECHANICAL | PROPERTIES                    | CONDITION | STANDARD  | UNITS             | VALUE     |
|------------|-------------------------------|-----------|-----------|-------------------|-----------|
|            | YIELD STRENGTH                | +23°C     | ISO 527-2 | MPa               | 155-165   |
|            | TENSILE STRESS AT BREAK       | +23°C     | ISO 527-2 | MPa               | -         |
|            | TENSILE STRAIN AT BREAK       | +23°C     | ISO 527-2 | %                 | 3-4       |
|            | TENSILE MODULUS               | +23°C     | ISO 527-2 | MPa               | 8500-9500 |
|            | IZOD IMPACT STRENGTH, NOTCHED | +23°C     | ISO 180/A | kJ/m <sup>2</sup> | 13-17     |

| THERMAL | PROPERTIES                  | CONDITION | STANDARD  | UNITS | VALUE   |
|---------|-----------------------------|-----------|-----------|-------|---------|
|         | VICAT SOFTENING TEMPERATURE | 50 N      | ISO 306   | °C    | 200     |
|         | HEAT DEFLECTION TEMPERATURE | 0,45 MPa  | ISO 75    | °C    | 200     |
|         | HEAT DEFLECTION TEMPERATURE | 1,80 MPa  | ISO 75    | °C    | 185     |
|         | MELTING TEMPERATURE         | 10 K/min  | ISO 11357 | °C    | 220-230 |



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| ELECTRICAL&FLAMMABILITY | PROPERTIES                         | CONDITION  | STANDARD  | UNITS  | VALUE |
|-------------------------|------------------------------------|------------|-----------|--------|-------|
|                         | FLAME RATING                       | 0,75 mm    | UL 94     | -      | HB    |
|                         | FLAME RATING                       | 1,6 mm     | UL 94     | -      | HB    |
|                         | 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 |

| INJECTION PROCESS | PROPERTIES                | UNITS | VALUE   |
|-------------------|---------------------------|-------|---------|
|                   | PREDRYING TEMPERATURE     | °C    | 80-110  |
|                   | PREDRYING TIME            | hours | 3-4     |
|                   | MELTING TEMPERATURE       | °C    | 230-250 |
|                   | NOZZLE TEMPERATURE        | °C    | 210-230 |
|                   | PRE- 3 REGION TEMPERATURE | °C    | 240-260 |
|                   | MID-2 REGION TEMPERATURE  | °C    | 240-260 |
|                   | AFT-1 REGION TEMPERATURE  | °C    | 240-260 |
|                   | MOLD TEMPERATURE          | °C    | 50-90   |
|                   | HOLD PRESSURE             | MPa   | 50-100  |

