

# RTP 2099 X 138254 A NS

Polyester Alloy

RTP Company

Message:

Medical Cleaner Resistant - UV Stabilized - No Subs

| General Information                                        |                      |                   |             |
|------------------------------------------------------------|----------------------|-------------------|-------------|
| Additive                                                   | UV Stabilizer        |                   |             |
| Features                                                   | Detergent Resistant  |                   |             |
| RoHS Compliance                                            | Contact Manufacturer |                   |             |
| Processing Method                                          | Injection Molding    |                   |             |
| Physical                                                   | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                           | 1.17                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.50 to 0.70         | %                 | ASTM D955   |
| Moisture Content                                           | < 0.020              | %                 |             |
| Mechanical                                                 | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                            | 1310                 | MPa               | ASTM D638   |
| Tensile Strength                                           | 46.2                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | > 100                | %                 | ASTM D638   |
| Flexural Modulus                                           | 1450                 | MPa               | ASTM D790   |
| Flexural Strength                                          | 56.9                 | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 800                  | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | No Break             |                   | ASTM D4812  |
| Thermal                                                    | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load                          |                      |                   | ASTM D648   |
| 0.45 MPa, Unannealed                                       | 90.6                 | °C                |             |
| 1.8 MPa, Unannealed                                        | 76.7                 | °C                |             |
| Flammability                                               | Nominal Value        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                   |                   | UL 94       |
| Injection                                                  | Nominal Value        | Unit              |             |
| Drying Temperature                                         | 87.8                 | °C                |             |
| Drying Time                                                | 4.0 to 6.0           | hr                |             |
| Dew Point                                                  | -40.0                | °C                |             |
| Processing (Melt) Temp                                     | 249 to 271           | °C                |             |
| Mold Temperature                                           | 51.7 to 79.4         | °C                |             |
| Injection Pressure                                         | 103 to 138           | MPa               |             |

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