

# RTP 399 X 95997 B

Polycarbonate  
RTP Company

Message:  
Thermally Conductive - Electrically Conductive

| General Information                                     |                      |                   |             |
|---------------------------------------------------------|----------------------|-------------------|-------------|
| Features                                                | Conductivity         |                   |             |
|                                                         | Heat conduction      |                   |             |
| RoHS Compliance                                         | Contact manufacturer |                   |             |
| Processing Method                                       | Injection molding    |                   |             |
| Physical                                                | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                        | 1.41                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.10                 | %                 | ASTM D955   |
| Moisture Content                                        | 0.020                | %                 |             |
| Mechanical                                              | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                         | 15900                | MPa               | ASTM D638   |
| Tensile Strength                                        | 82.7                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 1.0                  | %                 | ASTM D638   |
| Flexural Modulus                                        | 14500                | MPa               | ASTM D790   |
| Flexural Strength                                       | 131                  | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                           | 64                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                         | 240                  | J/m               | ASTM D4812  |
| Thermal                                                 | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 143                  | °C                | ASTM D648   |
| Thermal Conductivity <sup>1</sup>                       | 1.3                  | W/m/K             | ASTM E1530  |
| Electrical                                              | Nominal Value        | Unit              | Test Method |
| Surface Resistivity                                     | < 1.0E+5             | ohms              | ASTM D257   |
| Volume Resistivity                                      | < 1.0E+3             | ohms·cm           | ASTM D257   |
| Injection                                               | Nominal Value        | Unit              |             |
| Drying Temperature                                      | 121                  | °C                |             |
| Drying Time                                             | 4.0                  | hr                |             |
| Dew Point                                               | -28.9                | °C                |             |
| Processing (Melt) Temp                                  | 288 - 316            | °C                |             |
| Mold Temperature                                        | 82.2 - 121           | °C                |             |
| Injection Pressure                                      | 68.9 - 103           | MPa               |             |
| Injection instructions                                  |                      |                   |             |

Desiccant Type Dryer Required.

NOTE

1. Through-plane

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