

# RTP 2099 X 126210 BLACK

Polylactic Acid + PC

RTP Company

Message:

PC-PLA Blend - 32% Renewable Resource Content - Additional 49% Post Consumer Content

| General Information                                        |                      |                   |             |
|------------------------------------------------------------|----------------------|-------------------|-------------|
| Recycled Content                                           | Yes, 49%             |                   |             |
| Features                                                   | Updatable resources  |                   |             |
| RoHS Compliance                                            | Contact manufacturer |                   |             |
| Processing Method                                          | Injection molding    |                   |             |
| Physical                                                   | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                           | 1.20                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.40 - 0.80          | %                 | ASTM D955   |
| Moisture Content                                           | 0.020                | %                 |             |
| Mechanical                                                 | Nominal Value        | Unit              | Test Method |
| Tensile Strength                                           | 51.7                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | > 10                 | %                 | ASTM D638   |
| Flexural Modulus                                           | 2550                 | MPa               | ASTM D790   |
| Flexural Strength                                          | 86.2                 | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 690                  | 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, not annealed                                     | 124                  | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                      | 68.3                 | °C                | ASTM D648   |
| Flammability                                               | Nominal Value        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                   |                   | UL 94       |
| Injection                                                  | Nominal Value        | Unit              |             |
| Drying Temperature                                         | 79.4                 | °C                |             |
| Drying Time                                                | 4.0                  | hr                |             |
| Dew Point                                                  | -40.0                | °C                |             |
| Processing (Melt) Temp                                     | 221 - 243            | °C                |             |
| Mold Temperature                                           | 23.9 - 71.1          | °C                |             |
| Injection Pressure                                         | 55.2 - 103           | MPa               |             |
| Injection instructions                                     |                      |                   |             |

Desiccant Type Dryer Required.

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