

# RTP ESD 800 HB

Acetal (POM) Copolymer

RTP Company

Message:

ESD Protection - Static Dissipative

| General Information                |                                    |                   |                  |
|------------------------------------|------------------------------------|-------------------|------------------|
| UL YellowCard                      | E84658-251301                      |                   |                  |
| Features                           | Electrostatic discharge protection |                   |                  |
|                                    | Static conduction                  |                   |                  |
| RoHS Compliance                    | Contact manufacturer               |                   |                  |
| Processing Method                  | Injection molding                  |                   |                  |
| Physical                           | Nominal Value                      | Unit              | Test Method      |
| Specific Gravity                   | 1.38                               | g/cm <sup>3</sup> | ASTM D792        |
| Molding Shrinkage - Flow (3.20 mm) | 1.5 - 3.0                          | %                 | ASTM D955        |
| Moisture Content                   | 0.15                               | %                 |                  |
| Static Decay <sup>1</sup>          |                                    | sec               | FTMS 101C 4046.1 |
| Mechanical                         | Nominal Value                      | Unit              | Test Method      |
| Tensile Modulus                    | 1930                               | MPa               | ASTM D638        |
| Tensile Strength                   | 46.2                               | MPa               | ASTM D638        |
| Tensile Elongation (Yield)         | > 10                               | %                 | ASTM D638        |
| Flexural Modulus                   | 2000                               | MPa               | ASTM D790        |
| Flexural Strength                  | 64.1                               | MPa               | ASTM D790        |
| Impact                             | Nominal Value                      | Unit              | Test Method      |
| Notched Izod Impact (3.20 mm)      | 69                                 | J/m               | ASTM D256        |
| Unnotched Izod Impact (3.20 mm)    | 1100                               | J/m               | ASTM D4812       |
| Electrical                         | Nominal Value                      | Unit              | Test Method      |
| Surface Resistivity                |                                    |                   |                  |
| --                                 | < 1.0E+7                           | ohms              | ASTM D257        |
| --                                 | < 1.0E+6                           | ohms              | ESD STM11.11     |
| Volume Resistivity                 | 1.0E+2 - 1.0E+6                    | ohms · cm         | ASTM D257        |
| Flammability                       | Nominal Value                      | Unit              | Test Method      |
| Flame Rating (1.50 mm)             | HB                                 |                   | UL 94            |
| Injection                          | Nominal Value                      | Unit              |                  |
| Drying Temperature                 | 121                                | °C                |                  |
| Drying Time                        | 2.0                                | hr                |                  |
| Dew Point                          | -31.7                              | °C                |                  |
| Processing (Melt) Temp             | 182 - 218                          | °C                |                  |
| Mold Temperature                   | 79.4 - 107                         | °C                |                  |

|                                |            |     |
|--------------------------------|------------|-----|
| Injection Pressure             | 68.9 - 103 | MPa |
| Injection instructions         |            |     |
| Desiccant Type Dryer Required. |            |     |
| NOTE                           |            |     |

1. MIL-PRF-81705D, 5kV to 50 V, 12% RH

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