

# Pyramid™ II220

Polyether Imide

Polymics, Ltd.

Message:

Polyetherimide, Electro-Static Dissipative

| General Information                                     |                       |                   |                  |
|---------------------------------------------------------|-----------------------|-------------------|------------------|
| Features                                                | Rapid Static Decay    |                   |                  |
|                                                         | Statically Conductive |                   |                  |
| Physical                                                | Nominal Value         | Unit              | Test Method      |
| Specific Gravity                                        | 1.31                  | g/cm <sup>3</sup> | ASTM D792        |
| Water Absorption (23°C, 24 hr)                          | 0.24                  | %                 | ASTM D570        |
| Hardness                                                | Nominal Value         | Unit              | Test Method      |
| Rockwell Hardness (M-Scale)                             | 109                   |                   | ASTM D785        |
| Mechanical                                              | Nominal Value         | Unit              | Test Method      |
| Tensile Modulus                                         | 3400                  | MPa               | ASTM D638        |
| Tensile Strength                                        | 110                   | MPa               | ASTM D638        |
| Tensile Elongation                                      |                       |                   | ASTM D638        |
| Yield                                                   | 7.0                   | %                 |                  |
| Break                                                   | 60                    | %                 |                  |
| Flexural Modulus                                        | 3400                  | MPa               | ASTM D790        |
| Flexural Strength                                       | 103                   | MPa               | ASTM D790        |
| Impact                                                  | Nominal Value         | Unit              | Test Method      |
| Notched Izod Impact (0.318 mm)                          | 53                    | J/m               | ASTM D256        |
| Thermal                                                 | Nominal Value         | Unit              | Test Method      |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 201                   | °C                | ASTM D648        |
| CLTE - Flow                                             | 5.0E-5                | cm/cm/°C          | ASTM D696        |
| Electrical                                              | Nominal Value         | Unit              | Test Method      |
| Surface Resistivity                                     |                       |                   | ESD S11.11       |
| -- 1                                                    | 1.0E+6 to 1.0E+8      | ohms              |                  |
| -- 2                                                    | 1.0E+6 to 1.0E+9      | ohms              |                  |
| Volume Resistivity                                      |                       |                   | ESD S11.12       |
| -- 3                                                    | 1.0E+6 to 1.0E+8      | ohms · cm         |                  |
| -- 4                                                    | 1.0E+6 to 1.0E+9      | ohms · cm         |                  |
| Static Decay                                            | 0.00200               |                   | FTMS 101C 4046.1 |
| Flammability                                            | Nominal Value         | Unit              | Test Method      |
| Flame Rating                                            | V-0                   |                   | UL 94            |
| NOTE                                                    |                       |                   |                  |

|    |           |
|----|-----------|
| 1. | 100 Volts |
| 2. | 10 Volts  |
| 3. | 100 Volts |
| 4. | 10 Volts  |

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