

# ZEONEX® RS420-LDS

Cyclo Olefin Polymer

Zeon Corporation

## Message:

LDS compatible, ultra-low dielectric loss and dielectric constant for antenna and MID

### Features

Very low loss tangent

Low moisture absorption

LDS compatible

Good moldability

### Uses

LDS antenna MID

RF connector

| General Information                       |                      |          |             |
|-------------------------------------------|----------------------|----------|-------------|
| Features                                  | Low hygroscopicity   |          |             |
|                                           | Good formability     |          |             |
|                                           |                      |          |             |
| Agency Ratings                            | EC 1907/2006 (REACH) |          |             |
| RoHS Compliance                           | RoHS compliance      |          |             |
| Appearance                                | Black                |          |             |
| Processing Method                         | Injection molding    |          |             |
| Physical                                  | Nominal Value        | Unit     | Test Method |
| Specific Gravity                          | 1.01                 | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (280°C/2.16 kg) | 7.0                  | g/10 min | JIS K6719   |
| Water Absorption (Equilibrium)            | < 0.010              | %        | ASTM D570   |
| Mechanical                                | Nominal Value        | Unit     | Test Method |
| Tensile Modulus                           | 2100                 | MPa      | ISO 527-2   |
| Tensile Stress                            | 45.0                 | MPa      | ISO 527-2   |
| Tensile Strain (Break)                    | 25                   | %        | ISO 527-2   |
| Flexural Modulus                          | 2500                 | MPa      | ISO 178     |
| Thermal                                   | Nominal Value        | Unit     | Test Method |
| Glass Transition Temperature              | 134                  | °C       | JIS K7121   |
| CLTE - Flow                               | 7.0E-5               | cm/cm/°C | ASTM E831   |
| Electrical                                | Nominal Value        |          | Test Method |
| Dielectric Constant (1.00 GHz)            | 2.20                 |          | ASTM D150   |
| Dissipation Factor (1.00 GHz)             | < 1.0E-3             |          | ASTM D150   |

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