

# ZEONEX® 350R

Cyclo Olefin Polymer

Zeon Corporation

Message:

Optical lens grade, low birefringence and blue laser resistant. Excellent low wavelength light resistance.

Features

High transparency

Blue Laser resistance

Very low birefringence

Low moisture absorption

Uses

Optical Lens

Consumer electronics

Camera lens

Prism

| General Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| Features                                  | Low birefringence                  |                   |             |
|                                           | Low hygroscopicity                 |                   |             |
|                                           | Definition, high                   |                   |             |
| Uses                                      | Electrical/Electronic Applications |                   |             |
|                                           | Optical applications               |                   |             |
|                                           | Lens                               |                   |             |
|                                           | Camera application                 |                   |             |
| Agency Ratings                            | EC 1907/2006 (REACH)               |                   |             |
| RoHS Compliance                           | RoHS compliance                    |                   |             |
| Appearance                                | Clear/transparent                  |                   |             |
| Processing Method                         | Injection molding                  |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                          | 0.950                              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (260°C/2.16 kg) | 26                                 | g/10 min          | JIS K6719   |
| Water Absorption (Equilibrium)            | < 0.010                            | %                 | ASTM D570   |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                           | 2800                               | MPa               | ISO 527-2   |
| Tensile Stress                            | 38.0                               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                    | 1.5                                | %                 | ISO 527-2   |
| Flexural Modulus                          | 2900                               | MPa               | ISO 178     |
| Impact                                    | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact                       | 10                                 | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                      | Unit              | Test Method |
| Glass Transition Temperature              | 123                                | °C                | JIS K7121   |

|                         |               |          |             |
|-------------------------|---------------|----------|-------------|
| CLTE - Flow             | 7.0E-5        | cm/cm/°C | ASTM E831   |
| Optical                 | Nominal Value | Unit     | Test Method |
| Refractive Index        | 1.509         |          | ASTM D542   |
| Transmittance (3000 μm) | 92.0          | %        | ASTM D1003  |

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