

# SD POLYCA™ SD2221W

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA™ SD2201W and SD2221W satisfy both high optical property and high flow requirements.

| General Information                               |                      |       |             |
|---------------------------------------------------|----------------------|-------|-------------|
| UL YellowCard                                     | E123529-100652286    |       |             |
| Features                                          | Optical              |       |             |
|                                                   | High liquidity       |       |             |
| Uses                                              | Optical applications |       |             |
| Physical                                          | Nominal Value        | Unit  | Test Method |
| Density                                           | 1.20                 | g/cm³ | ISO 1183    |
| Mechanical                                        | Nominal Value        | Unit  | Test Method |
| Tensile Modulus                                   | 2000                 | MPa   | ISO 527-2   |
| Tensile Stress                                    | 62.0                 | MPa   | ISO 527-2   |
| Tensile Strain (Break)                            | 60                   | %     | ISO 527-2   |
| Flexural Modulus                                  | 2200                 | MPa   | ISO 178     |
| Flexural Stress                                   | 90.0                 | MPa   | ISO 178     |
| Impact                                            | Nominal Value        | Unit  | Test Method |
| Charpy Notched Impact Strength (23°C)             | 10                   | kJ/m² | ISO 179     |
| Thermal                                           | Nominal Value        | Unit  | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 123                  | °C    | ISO 75-2/A  |
| Flammability                                      | Nominal Value        |       | Test Method |
| Flame Rating                                      |                      |       | UL 94       |
| 0.40 mm                                           | V-2                  |       | UL 94       |
| 3.0 mm                                            | V-2                  |       | UL 94       |
| Optical                                           | Nominal Value        | Unit  | Test Method |
| Transmittance (2000 μm)                           | 90.5                 | %     | JIS K7361   |
| Haze (2000 μm)                                    | 0.40                 | %     | JIS K7136   |

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