

# ESTOPLAST ZK 6002WW95

Polycarbonate  
Ester Industries Ltd.

Message:  
Polycarbonate - Unfilled Grade, White  
Electrical & Electronic: Switches and Light Shielding

| General Information                      |                                    |                   |             |
|------------------------------------------|------------------------------------|-------------------|-------------|
| Additive                                 | demoulding                         |                   |             |
|                                          | UV stabilizer                      |                   |             |
| Features                                 | UV Stabilized                      |                   |             |
|                                          | High liquidity                     |                   |             |
|                                          | Good demoulding performance        |                   |             |
| Uses                                     | Electrical/Electronic Applications |                   |             |
|                                          | Switch                             |                   |             |
| RoHS Compliance                          | RoHS compliance                    |                   |             |
| Appearance                               | White                              |                   |             |
|                                          | Opacity                            |                   |             |
| Forms                                    | Particle                           |                   |             |
| Processing Method                        | Injection molding                  |                   |             |
| Physical                                 | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                         | 1.21                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 24                                 | g/10 min          | ASTM D1238  |
| Water Absorption                         |                                    |                   | ISO 62      |
| Saturated, 23°C                          | 0.30                               | %                 | ISO 62      |
| Equilibrium, 23°C, 50% RH                | 0.15                               | %                 | ISO 62      |
| Mechanical                               | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                          | 2500                               | MPa               | ASTM D638   |
| Tensile Strength (Yield)                 | 65.0                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)               | > 50                               | %                 | ASTM D638   |
| Flexural Modulus                         | 2400                               | MPa               | ASTM D790   |
| Flexural Strength                        | 100                                | MPa               | ASTM D790   |
| Impact                                   | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact                      | 550                                | J/m               | ASTM D256   |
| Unnotched Izod Impact                    | No Break                           |                   | ASTM D256   |
| Thermal                                  | Nominal Value                      | Unit              | Test Method |

|                                   |               |         |             |
|-----------------------------------|---------------|---------|-------------|
| Deflection Temperature Under Load |               |         | ASTM D648   |
| 0.45 MPa, not annealed            | 140           | °C      | ASTM D648   |
| 1.8 MPa, not annealed             | 130           | °C      | ASTM D648   |
| Electrical                        | Nominal Value | Unit    | Test Method |
| Volume Resistivity                | > 1.0E+16     | ohms·cm | ASTM D257   |
| Dielectric Strength (3.00 mm)     | 18            | kV/mm   | ASTM D149   |
| Flammability                      | Nominal Value | Unit    | Test Method |
| Flame Rating (3.2 mm)             | V-2           |         | UL 94       |
| Injection                         | Nominal Value | Unit    |             |
| Drying Temperature                | 120           | °C      |             |
| Drying Time                       | 3.0 - 4.0     | hr      |             |
| Rear Temperature                  | 265 - 275     | °C      |             |
| Middle Temperature                | 285 - 295     | °C      |             |
| Nozzle Temperature                | 280 - 290     | °C      |             |
| Processing (Melt) Temp            | 280 - 290     | °C      |             |
| Mold Temperature                  | 60 - 80       | °C      |             |

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