

# ESTOPLAST ZK 6420GY80

Polycarbonate  
Ester Industries Ltd.

Message:  
Polycarbonate - 20% Glass filled, Flame Retardant, Grey  
Electrical & Electronic components

| General Information                                     |                                                       |                   |             |
|---------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Additive                                                | demoulding                                            |                   |             |
|                                                         | Flame retardancy                                      |                   |             |
| Features                                                | Good demoulding performance                           |                   |             |
|                                                         | Flame retardancy                                      |                   |             |
| Uses                                                    | Electrical/Electronic Applications                    |                   |             |
| RoHS Compliance                                         | RoHS compliance                                       |                   |             |
| Appearance                                              | Grey                                                  |                   |             |
| Forms                                                   | Particle                                              |                   |             |
| Processing Method                                       | Injection molding                                     |                   |             |
| Physical                                                | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                        | 1.35                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption                                        |                                                       |                   | ISO 62      |
| Saturated, 23°C                                         | 0.40                                                  | %                 | ISO 62      |
| Equilibrium, 23°C, 50% RH                               | 0.20                                                  | %                 | ISO 62      |
| Mechanical                                              | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (Break)                                | 90.0                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 4.0                                                   | %                 | ASTM D638   |
| Flexural Strength                                       | 160                                                   | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact                                     | 80                                                    | J/m               | ASTM D256A  |
| Thermal                                                 | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 145                                                   | °C                | ASTM D648   |
| Electrical                                              | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                                      | > 1.0E+16                                             | ohms · cm         | ASTM D257   |
| Dielectric Strength (2.00 mm)                           | 15                                                    | kV/mm             | ASTM D149   |
| Flammability                                            | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (1.5 mm)                                   | V-0                                                   |                   | UL 94       |
| Injection                                               | Nominal Value                                         | Unit              |             |
| Drying Temperature                                      | 120                                                   | °C                |             |

|                        |           |    |
|------------------------|-----------|----|
| Drying Time            | 3.0 - 4.0 | hr |
| Rear Temperature       | 270 - 280 | °C |
| Middle Temperature     | 285 - 295 | °C |
| Nozzle Temperature     | 280 - 290 | °C |
| Processing (Melt) Temp | 285 - 295 | °C |
| Mold Temperature       | 75 - 100  | °C |

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