

# Edgetek™ PC-20GF/000 Phi Gray 6

Polycarbonate

PolyOne Corporation

Message:

20% glass fiber reinforced polycarbonate compound

| General Information                            |                                                       |                   |             |
|------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                         | Glass fiber reinforced material, 20% filler by weight |                   |             |
| RoHS Compliance                                | RoHS compliance                                       |                   |             |
| Appearance                                     | Grey                                                  |                   |             |
| Forms                                          | Particle                                              |                   |             |
| Processing Method                              | Injection molding                                     |                   |             |
| Physical                                       | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                               | 1.34                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                       | 0.20 - 0.50                                           | %                 | ASTM D955   |
| Mechanical                                     | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (23°C, 3.20 mm)  | 100                                                   | MPa               | ASTM D638   |
| Flexural Modulus <sup>2</sup> (23°C, 3.20 mm)  | 6000                                                  | MPa               | ASTM D790   |
| Flexural Strength <sup>3</sup> (23°C, 3.20 mm) | 160                                                   | MPa               | ASTM D790   |
| Impact                                         | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)            | 70                                                    | J/m               | ASTM D256   |
| Flammability                                   | Nominal Value                                         |                   | Test Method |
| Flame Rating (3.0 mm)                          | V-1                                                   |                   | UL 94       |
| Injection                                      | Nominal Value                                         | Unit              |             |
| Drying Temperature                             | 120 - 130                                             | °C                |             |
| Drying Time                                    | 3.0 - 4.0                                             | hr                |             |
| Processing (Melt) Temp                         | 280 - 300                                             | °C                |             |
| Mold Temperature                               | 60 - 110                                              | °C                |             |
| NOTE                                           |                                                       |                   |             |
| 1.                                             | 50 mm/min                                             |                   |             |
| 2.                                             | 1.3 mm/min                                            |                   |             |
| 3.                                             | 1.3 mm/min                                            |                   |             |

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