

# EnCom F0 GF10 PC

Polycarbonate

EnCom, Inc.

Message:

Flame Retardant 10% Glass Filled PC

| General Information                |                                    |                   |             |
|------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass Fiber,10% Filler by Weight   |                   |             |
| Features                           | Flame Retardant                    |                   |             |
| Uses                               | Electrical/Electronic Applications |                   |             |
| Appearance                         | Black                              |                   |             |
|                                    | Colors Available                   |                   |             |
|                                    | Natural Color                      |                   |             |
| Forms                              | Pellets                            |                   |             |
| Processing Method                  | Injection Molding                  |                   |             |
|                                    | Profile Extrusion                  |                   |             |
| Physical                           | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                   | 1.25                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.20 to 0.40                       | %                 | ASTM D955   |
| Water Absorption (24 hr)           | 0.12                               | %                 | ASTM D570   |
| Mechanical                         | Nominal Value                      | Unit              | Test Method |
| Tensile Strength (Yield)           | 65.5                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 22                                 | %                 | ASTM D638   |
| Flexural Modulus                   | 3340                               | MPa               | ASTM D790   |
| Flexural Strength (Yield)          | 100                                | MPa               | ASTM D790   |
| Impact                             | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C)         | 160                                | J/m               | ASTM D256   |
| Thermal                            | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load  |                                    |                   | ASTM D648   |
| 0.45 MPa, Unannealed               | 147                                | °C                |             |
| 1.8 MPa, Unannealed                | 143                                | °C                |             |
| CLTE - Flow                        | 1.8E-5                             | cm/cm/°C          | ASTM D696   |
| Flammability                       | Nominal Value                      |                   | Test Method |
| Flame Rating                       |                                    |                   | UL 94       |
| 1.57 mm                            | V-0                                |                   |             |
| 3.18 mm                            | 5VA                                |                   |             |
| Injection                          | Nominal Value                      | Unit              |             |
| Drying Temperature                 | 93.3 to 121                        | °C                |             |

|                        |                |     |
|------------------------|----------------|-----|
| Drying Time            | 4.0            | hr  |
| Drying Time, Maximum   | 7.0            | hr  |
| Suggested Max Moisture | 0.020          | %   |
| Suggested Shot Size    | 40 to 75       | %   |
| Rear Temperature       | 288 to 310     | °C  |
| Middle Temperature     | 299 to 321     | °C  |
| Front Temperature      | 310 to 332     | °C  |
| Nozzle Temperature     | 304 to 327     | °C  |
| Processing (Melt) Temp | 310 to 332     | °C  |
| Mold Temperature       | 82.2 to 116    | °C  |
| Back Pressure          | 0.345 to 0.689 | MPa |
| Screw Speed            | 25 to 75       | rpm |
| Vent Depth             | 0.038 to 0.076 | mm  |

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