

# TYNEC® CG200

Polycarbonate  
Tyne Plastics LLC.

Message:  
Data was measured on natural colored test specimens.

| General Information                   |                                  |                   |             |
|---------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                | Glass Fiber,20% Filler by Weight |                   |             |
| Forms                                 | Pellets                          |                   |             |
| Physical                              | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                      | 1.35                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)             | 6.0                              | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow              | 0.20 to 0.40                     | %                 | ASTM D955   |
| Water Absorption                      |                                  |                   | ASTM D570   |
| 24 hr                                 | 0.12                             | %                 |             |
| Saturation                            | 0.29                             | %                 |             |
| Mechanical                            | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                       | 6480                             | MPa               | ASTM D638   |
| Tensile Strength (Break)              | 110                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)            | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus                      | 5790                             | MPa               | ASTM D790   |
| Flexural Strength                     | 131                              | MPa               | ASTM D790   |
| Impact                                | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)         | 110                              | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)       | 1100                             | J/m               | ASTM D256   |
| Thermal                               | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load     |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                  | 146                              | °C                |             |
| 1.8 MPa, Unannealed                   | 143                              | °C                |             |
| Electrical                            | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                    | 1.0E+16                          | ohms · cm         | ASTM D257   |
| Dielectric Strength (3.18 mm, in Air) | 16                               | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)           | 3.20                             |                   | ASTM D150   |
| Dissipation Factor (1 MHz)            | 0.010                            |                   | ASTM D150   |
| Flammability                          | Nominal Value                    | Unit              | Test Method |
| Flame Rating                          |                                  |                   | UL 94       |
| 1.59 mm                               | V-2                              |                   |             |
| 3.18 mm                               | V-1                              |                   |             |

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