

## Technical Data Sheet

### *Diamond* PC-1418R BKBLK

Polycarbonate

#### Product Description

Injection Grade Polycarbonate High Flow - Clear and Colors Available Add "R" for Added Release Add "U" for UV Stabilizer

|                   |                                     |
|-------------------|-------------------------------------|
| Processing Method | Injection Molding                   |
| Attribute         | High Flow                           |
| Appearance        | Clear/Transparent; Colors Available |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate                                         | 18            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.21          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield                              | 62.1          | MPa               | ASTM D638   |
| Flexural Modulus                                       | 2280          | MPa               | ASTM D790   |
| Tensile Elongation at Break                            | >130          | %                 | ASTM D638   |
| Flexural Strength                                      | 98.6          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm)                  | 640           | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 132           | °C                | ASTM D648   |