

## Technical Data Sheet

### *Diamond* PC 1008UV.1002



Polycarbonate

#### Product Description

*Diamond* PC 1008UV.1002 is a Polycarbonate material. Features include: Impact Modified.

**Attribute** Impact Modified

**Forms** Pellets

**Additive** Impact Modifier

| Typical Properties                                                | Nominal Value | Units             | Test Method |
|-------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                   |               |                   |             |
| Melt Flow Rate, (300 °C/3.8 kg, Procedure A)                      | 10            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                        | 1.18          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                                 |               |                   |             |
| Tensile Strength at Yield, (51 mm/min, Type I)                    | 66.2          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min, 3.18 mm)                           | 2210          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (51 mm/min, Type I)                  | 120           | %                 | ASTM D638   |
| Flexural Strength, (1.3 mm/min, 3.18 mm)                          | 84.8          | MPa               | ASTM D790   |
| <b>Impact</b>                                                     |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm, Method A)                   | 530           | J/m               | ASTM D256   |
| <b>Thermal</b>                                                    |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm) | 126           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)  | 138           | °C                | ASTM D648   |