

# Product Information/Technical Data Sheet

## TECHNICAL DATA SHEET: Chemguard

| Properties                              | Testing Method | Unit                          | Typical value      |
|---|----------------|-------------------------------|--------------------|
| Specific gravity                        | ASTM D792      | g/cm <sup>3</sup>             | 1.50               |
| Rockwell                                | Shore D        |                               | 86                 |
| Tensile Strength                        | ASTM D638      | Kg/cm <sup>2</sup>            | 630                |
| Tensile modulus of Elasticity           | ASTM D638      | Kg/cm <sup>2</sup>            | 27000              |
| Elongation at break                     | ASTM D638      | %                             | 70                 |
| Flexural strength                       | ASTM D790      | Kg/cm <sup>2</sup>            | 850                |
| Flexural modulus                        | ASTM D790      | Kg/cm <sup>2</sup>            | 29900              |
| IZOD impact strength                    | ASTM D256      | Kg/cm <sup>2</sup>            | 8.0                |
| Softening temperature                   | CNS 3143       | °C                            | 89.5               |
| (264psi) Heating deflection temperature | ASTM D648      | °C                            | 91.2               |
| Dimensional change on heating (CD)      | JIS K7133      | %                             | 1.0                |
| Dimensional change on heating (MD)      | JIS K7133      | %                             | -2.4               |
| Coefficient of linear expand            | ASTM D696      | X10 <sup>-5</sup> /°C         | 6.8                |
| Thermal conductivity                    | ASTM C177      | 10 <sup>-4</sup> cal/cm.sec°C | 3.3                |
| Flammability resistance                 | UL 94          | -                             | V0                 |
| Surface resistance                      | ASTM D257      | Ω/□                           | 10 <sup>15</sup> ↓ |
| Volume resistance                       | ASTM D257      | Ω . cm                        | 10 <sup>14</sup> ↑ |
| Dielectric strength                     | JIS K6911      | KV/mm                         | 35                 |
| Dielectric constant                     | ASTM D150      | 10 <sup>3</sup> MHz           | 3.6                |
| Water absorption                        | ASTM D570      | %                             | 0.01               |
| Total luminous transmittance            | JIS K7361      | %                             | -                  |
| Weather Resistant                       | UV-con         | 168 hours                     | stable             |