

# Sup-tech C9000

Polycarbonate

Shanghai Suptech Engineering Plastics Co. Ltd.

Message:

Sup-tech C9000 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in Asia Pacific.

Characteristics include:

Flame Rated

Flame Retardant

| General Information            |                   |                   |             |
|--------------------------------|-------------------|-------------------|-------------|
| Additive                       | Flame Retardant   |                   |             |
| Features                       | Flame Retardant   |                   |             |
| Processing Method              | Injection Molding |                   |             |
| Physical                       | Nominal Value     | Unit              | Test Method |
| Density                        | 1.31              | g/cm <sup>3</sup> | DIN 53479   |
| Molding Shrinkage              | 4.0E-3 to 8.0E-3  | %                 | DIN 53464   |
| Water Absorption               |                   |                   | DIN 53495   |
| 23°C, 24 hr                    | 0.15              | %                 |             |
| Saturation, 23°C               | 0.30              | %                 |             |
| Hardness                       | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)    | 115               |                   | ISO 2039-2  |
| Mechanical                     | Nominal Value     | Unit              | Test Method |
| Tensile Stress (Break)         | 60.0              | MPa               | DIN 53455   |
| Tensile Strain (Break)         | 30                | %                 | DIN 53452   |
| Flexural Modulus               | 2300              | MPa               | DIN 53457   |
| Flexural Stress                | 80.0              | MPa               | DIN 53457   |
| Impact                         | Nominal Value     | Unit              | Test Method |
| Charpy Notched Impact Strength | 40                | kJ/m <sup>2</sup> | DIN 53453   |
| Thermal                        | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature    |                   |                   | DIN 53461   |
| 0.45 MPa, Unannealed           | 130               | °C                |             |
| 1.8 MPa, Unannealed            | 90.0              | °C                |             |
| Electrical                     | Nominal Value     | Unit              | Test Method |
| Surface Resistivity            | 1.0E+14           | ohms              | IEC 60093   |
| Electric Strength              | 15                | kV/mm             | DIN 53481   |
| Flammability                   | Nominal Value     | Unit              | Test Method |
| Flame Rating                   | V-0               |                   | UL 94       |
| Injection                      | Nominal Value     | Unit              |             |
| Drying Temperature             | 100               | °C                |             |
| Drying Time                    | 7.0 to 18         | hr                |             |
| Processing (Melt) Temp         | 230 to 260        | °C                |             |

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