

# SKYGREEN® PN100

Polyethylene Terephthalate Glycol Comonomer

SK Chemicals

## Message:

SKYGREEN® PN100 is a Polyethylene Terephthalate Glycol Comonomer (PETG) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Typical application of SKYGREEN® PN100 : Medical/Healthcare

| General Information               |                                 |                   |              |
|-----------------------------------|---------------------------------|-------------------|--------------|
| Uses                              | Medical/Healthcare Applications |                   |              |
| Forms                             | Pellets                         |                   |              |
| Processing Method                 | Injection Molding               |                   |              |
| Physical                          | Nominal Value                   | Unit              | Test Method  |
| Specific Gravity                  | 1.27                            | g/cm <sup>3</sup> | ASTM D792    |
| Molding Shrinkage - Flow          | 0.20 to 0.50                    | %                 | ASTM D955    |
| Water Absorption (24 hr)          | 0.13                            | %                 | ASTM D570    |
| Hardness                          | Nominal Value                   | Unit              | Test Method  |
| Rockwell Hardness (R-Scale)       | 105                             |                   | ASTM D785    |
| Mechanical                        | Nominal Value                   | Unit              | Test Method  |
| Tensile Strength                  |                                 |                   |              |
| Yield <sup>1</sup>                | 50.0                            | MPa               | ASTM D638    |
| Yield                             | 50.0                            | MPa               | ISO 527-2/50 |
| Break <sup>2</sup>                | 26.0                            | MPa               | ASTM D638    |
| Break                             | 26.0                            | MPa               | ISO 527-2/50 |
| Tensile Elongation                |                                 |                   |              |
| Yield <sup>3</sup>                | 4.5                             | %                 | ASTM D638    |
| Yield                             | 4.5                             | %                 | ISO 527-2/50 |
| Break <sup>4</sup>                | 120                             | %                 | ASTM D638    |
| Break                             | 120                             | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>5</sup>     |                                 |                   |              |
| --                                | 2150                            | MPa               | ASTM D790    |
| --                                | 2050                            | MPa               | ISO 178      |
| Flexural Strength <sup>6</sup>    |                                 |                   |              |
| --                                | 71.0                            | MPa               | ASTM D790    |
| --                                | 69.0                            | MPa               | ISO 178      |
| Impact                            | Nominal Value                   | Unit              | Test Method  |
| Notched Izod Impact               |                                 |                   |              |
| 23°C                              | 85                              | J/m               | ASTM D256    |
| 23°C                              | 7.9                             | kJ/m <sup>2</sup> | ISO 180      |
| Thermal                           | Nominal Value                   | Unit              | Test Method  |
| Deflection Temperature Under Load |                                 |                   | ASTM D648    |

| 0.45 MPa, Unannealed | 70.0          | °C   |             |
|----------------------|---------------|------|-------------|
| 1.8 MPa, Unannealed  | 62.0          | °C   |             |
| Optical              | Nominal Value | Unit | Test Method |
| Transmittance        | 90.0          | %    | ASTM D1003  |
| Haze                 | < 1.0         | %    | ASTM D1003  |
| NOTE                 |               |      |             |
| 1.                   | 50 mm/min     |      |             |
| 2.                   | 50 mm/min     |      |             |
| 3.                   | 50 mm/min     |      |             |
| 4.                   | 50 mm/min     |      |             |
| 5.                   | 1.3 mm/min    |      |             |
| 6.                   | 1.3 mm/min    |      |             |

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