

# SPI 962 BK

Polyamide 66

Service Polymers, Inc.

## Message:

SPI 962 BK is a Polyamide 66 (Nylon 66) product filled with 40% carbon fiber. It is available in North America. Primary characteristic: flame rated.

| General Information  |                                   |                   |                 |
|--|-----------------------------------|-------------------|-----------------|
| Filler / Reinforcement   | Carbon Fiber,40% Filler by Weight |                   |                 |
| Appearance   | Black                             |                   |                 |
| Forms  | Pellets                           |                   |                 |
| Physical   | Nominal Value                     | Unit              | Test Method     |
| Specific Gravity   | 1.34                              | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage - Flow (3.18 mm)                               | 0.10 to 0.50                      | %                 | ASTM D955       |
| Mechanical   | Nominal Value                     | Unit              | Test Method     |
| Tensile Modulus  | 26500 to 28600                    | MPa               | ASTM D638       |
| Tensile Strength (Yield)   | 193 to 218                        | MPa               | ASTM D638       |
| Tensile Elongation (Yield)                                       | 1.0 to 3.0                        | %                 | ASTM D638       |
| Flexural Modulus   | 22400 to 24500                    | MPa               | ASTM D790       |
| Flexural Strength  | 362 to 379                        | MPa               | ASTM D790       |
| Impact   | Nominal Value                     | Unit              | Test Method     |
| Notched Izod Impact (23°C, 3.18 mm)                              | 75 to 130                         | J/m               | ASTM D256       |
| Thermal  | Nominal Value                     | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 250 to 253                        | °C                | ASTM D648       |
| Flammability   | Nominal Value                     | Unit              | Test Method     |
| Flame Rating (3.00 mm)   | HB                                |                   | Internal Method |
| Injection  | Nominal Value                     | Unit              | Test Method     |
| Drying Temperature   | 79.4                              | °C                |                 |
| Drying Time  | 4.0                               | hr                |                 |
| Dew Point  | -17.8                             | °C                |                 |
| Suggested Max Moisture   | 0.20                              | %                 |                 |
| Processing (Melt) Temp   | 277 to 299                        | °C                |                 |
| Mold Temperature   | 65.6 to 107                       | °C                |                 |

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