

# Veroplas SER20NF

Acrylonitrile Butadiene Styrene

PlastxWorld Inc.

Message:

Veroplas SER20NF is an acrylonitrile butadiene styrene (ABS) product. It can be processed by injection molding and is available in North America or Europe.

- Features include:
- flame retardant/rated flame
  - Flame Retardant
  - high liquidity

| General Information                       |                   |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                             | E315545-100118263 |                   |             |
| Additive                                  | Flame retardancy  |                   |             |
| Features                                  | Low density       |                   |             |
|                                           | High liquidity    |                   |             |
|                                           | General           |                   |             |
|                                           | Flame retardancy  |                   |             |
| Uses                                      | General           |                   |             |
| Appearance                                | Black             |                   |             |
|                                           | Available colors  |                   |             |
|                                           | Natural color     |                   |             |
| Forms                                     | Particle          |                   |             |
| Processing Method                         | Injection molding |                   |             |
| Physical                                  | Nominal Value     | Unit              | Test Method |
| Density                                   | 1.18              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 80                | g/10 min          | ISO 1133    |
| Molding Shrinkage                         | 0.40 - 0.60       | %                 | ISO 294-4   |
| Hardness                                  | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 110               |                   | ISO 2039-2  |
| Mechanical                                | Nominal Value     | Unit              | Test Method |
| Tensile Stress (Yield)                    | 40.0              | MPa               | ISO 527-2   |
| Flexural Modulus                          | 2400              | MPa               | ISO 178     |
| Flexural Stress                           | 65.0              | MPa               | ISO 178     |
| Impact                                    | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 15                | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                   | Nominal Value     | Unit              | Test Method |
| Vicat Softening Temperature               |                   |                   |             |
| --                                        | 90.0              | °C                | ISO 306/A50 |

| --           | 80.0          | °C | ISO 306/B50  |
|--------------|---------------|----|--------------|
| --           | 82.0          | °C | ISO 306/B120 |
| Flammability | Nominal Value |    | Test Method  |
| Flame Rating |               |    | UL 94        |
| 1.50 mm, All | V-1           |    | UL 94        |
| 2.00 mm, All | V-0           |    | UL 94        |
| 2.50 mm, All | 5VA           |    | UL 94        |

#### Additional Information

The value listed as Mold Shrinkage, ISO 294, was tested in accordance with ISO 2577.

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 79.4 - 85.0   | °C   |
| Drying Time            | 2.0 - 4.0     | hr   |
| Rear Temperature       | 160 - 180     | °C   |
| Middle Temperature     | 180 - 200     | °C   |
| Front Temperature      | 190 - 210     | °C   |
| Processing (Melt) Temp | 180 - 230     | °C   |
| Mold Temperature       | 40.0 - 60.0   | °C   |
| Injection Pressure     | 48.3 - 96.5   | MPa  |
| Injection Rate         | Slow-Moderate |      |
| Back Pressure          | 0.345 - 1.38  | MPa  |
| Screw Speed            | 40 - 60       | rpm  |

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