

# SCHULABLEND® (ASA/PA) M/MW 6102 MT U

Acrylonitrile Styrene Acrylate + PA  
Engineering Plastics

## Product Description

Nanocomposite based on ASA/PA-blend for high dimensional stability. (Former name: SCHULABLEND® M/MW NC800 UV)

## General

|                   |                              |                 |
|-------------------|------------------------------|-----------------|
| Features          | • Good Dimensional Stability | • UV Stabilized |
| Processing Method | • Injection Molding          |                 |

| Physical                                   | Dry              | Conditioned      | Unit                                          | Test Method     |
|--------------------------------------------|------------------|------------------|-----------------------------------------------|-----------------|
| Density                                    | 1.17             | --               | g/cm <sup>3</sup>                             | ISO 1183/A      |
| Melt Volume-Flow Rate (MVR) (250°C/5.0 kg) | 20               | --               | cm <sup>3</sup> /10min                        | ISO 1133        |
| Molding Shrinkage - Flow                   | 0.80             | --               | %                                             | ISO 294-4       |
| Mechanical                                 | Dry              | Conditioned      | Unit                                          | Test Method     |
| Tensile Modulus                            | 464000<br>(3200) | 203000<br>(1400) | psi<br>(MPa)                                  | ISO 527-2/1A/1  |
| Tensile Stress (Yield)                     | 8270<br>(57.0)   | 4790<br>(33.0)   | psi<br>(MPa)                                  | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                     | 3.0              | 16               | %                                             | ISO 527-2/1A/50 |
| Impact                                     | Dry              | Conditioned      | Unit                                          | Test Method     |
| Charpy Notched Impact Strength             |                  |                  |                                               | ISO 179/1eA     |
| -22°F (-30°C)                              | 2.4<br>(5.0)     | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| 73°F (23°C)                                | 4.3<br>(9.0)     | 16<br>(33)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| Charpy Unnotched Impact Strength           |                  |                  |                                               | ISO 179/1eU     |
| -22°F (-30°C)                              | > 38<br>(> 80)   | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                 |
| 73°F (23°C)                                | No Break         | No Break         |                                               |                 |
| Hardness                                   | Dry              | Conditioned      | Unit                                          | Test Method     |
| Ball Indentation Hardness (H 358/30)       | 11500<br>(79.0)  | --               | psi<br>(MPa)                                  | ISO 2039-1      |
| Thermal                                    | Dry              | Conditioned      | Unit                                          | Test Method     |
| Heat Deflection Temperature                |                  |                  |                                               |                 |
| 66 psi (0.45 MPa), Unannealed              | 230<br>(110)     | --               | °F<br>(°C)                                    | ISO 75-2/Bf     |
| 264 psi (1.8 MPa), Unannealed              | 158<br>(70.0)    | --               | °F<br>(°C)                                    | ISO 75-2/Af     |
| Vicat Softening Temperature                |                  |                  |                                               |                 |
| --                                         | 410<br>(210)     | --               | °F<br>(°C)                                    | ISO 306/A50     |
| --                                         | 284<br>(140)     | --               | °F<br>(°C)                                    | ISO 306/B50     |
| Electrical                                 | Dry              | Conditioned      | Unit                                          | Test Method     |
| Surface Resistivity                        | > 1.0E+15        | > 1.0E+12        | ohms                                          | IEC 60093       |
| Volume Resistivity                         | > 1.0E+13        | > 1.0E+10        | ohms·cm                                       | IEC 60093       |



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| Flammability                | Dry         | Conditioned | Unit               | Test Method             |
|-----------------------------|-------------|-------------|--------------------|-------------------------|
| Burning Rate                |             |             |                    |                         |
| 0.0787 in (2.00 mm)         | 1.2<br>(31) | --          | in/min<br>(mm/min) | ISO 3795                |
| 0.0787 in (2.00 mm)         | 1.2<br>(31) | --          | in/min<br>(mm/min) | FMVSS 302               |
| Flammability Classification |             |             |                    | IEC 60695-11-10,<br>-20 |
| 0.06 in (1.5 mm)            | HB          | --          |                    |                         |
| 0.12 in (3.0 mm)            | HB          | --          |                    |                         |

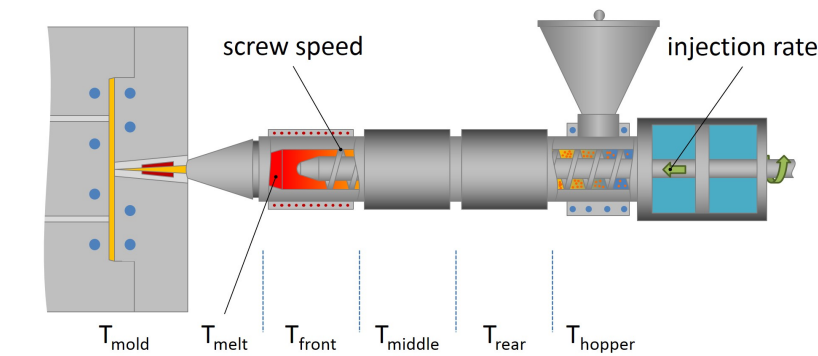
**Additional Information**

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications



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| Injection              | Dry (English) | Dry (SI)      |
|------------------------|---------------|---------------|
| Drying Temperature     | 176 °F        | 80 °C         |
| Drying Time            | 4.0 hr        | 4.0 hr        |
| Processing (Melt) Temp | 446 to 518 °F | 230 to 270 °C |
| Mold Temperature       | 104 to 176 °F | 40 to 80 °C   |

Notes

These are typical property values not to be construed as specification limits.

