

## Technical Data Sheet

RW *Schulablend* M/MW NC800 SOUL 73035 UV

Acrylonitrile Styrene Acrylate + PA

## Product Description

Nanocomposite based on ASA/PA-blend for high dimensional stability

Processing Method Injection Molding

Attribute Good Dimensional Stability

| Typical Properties                                                  | Nominal Value | Units                   | Test Method          |
|---------------------------------------------------------------------|---------------|-------------------------|----------------------|
| <b>Physical</b>                                                     |               |                         |                      |
| Melt Volume Flow Rate, (250 °C/5.0 kg)                              | 18            | cm <sup>3</sup> /10 min | ISO 1133             |
| Density, (Method A)                                                 | 1.16          | g/cm <sup>3</sup>       | ISO 1183             |
| <b>Mechanical</b>                                                   |               |                         |                      |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 57.0          | MPa                     | ISO 527-2            |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 3.0           | %                       | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 3400          | MPa                     | ISO 527-1            |
| <b>Impact</b>                                                       |               |                         |                      |
| Charpy Impact Strength - Notched                                    |               |                         |                      |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 9.0           | kJ/m <sup>2</sup>       | ISO 179              |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 5.0           | kJ/m <sup>2</sup>       | ISO 179              |
| Charpy Impact Strength - Unnotched                                  |               |                         |                      |
| (23 °C, Type 1, Edgewise)                                           | No Break      |                         | ISO 179              |
| (-30 °C, Type 1, Edgewise)                                          | No Break      |                         | ISO 179              |
| <b>Hardness</b>                                                     |               |                         |                      |
| Ball Indentation Hardness, (H 358/30)                               | 79.0          | MPa                     | ISO 2039-1           |
| <b>Thermal</b>                                                      |               |                         |                      |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                     | 139           | °C                      | ISO 306              |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 97.0          | °C                      | ISO 75-2/B           |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 70.0          | °C                      | ISO 75-2/A           |
| <b>Electrical</b>                                                   |               |                         |                      |
| Volume Resistivity                                                  | >1.0E+13      | ohm*cm                  | IEC 60093            |
| Surface Resistivity                                                 | >1.0E+15      | ohm                     | IEC 60093            |
| <b>UL Information</b>                                               |               |                         |                      |
| Flammability Classification, (1.5 mm)                               | HB            |                         | IEC 60695-11-10, -20 |