

# SCHULABLEND® (ASA/PA) M/MW NC 800

Acrylonitrile Styrene Acrylate + Nylon

A. Schulman Europe

Message:

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

| General Information                        |                            |                        |                      |
|--------------------------------------------|----------------------------|------------------------|----------------------|
| Features                                   | Good dimensional stability |                        |                      |
| Processing Method                          | Injection molding          |                        |                      |
| Physical                                   | Nominal Value              | Unit                   | Test Method          |
| Density                                    | 1.16                       | g/cm <sup>3</sup>      | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (250°C/5.0 kg) | 18.0                       | cm <sup>3</sup> /10min | ISO 1133             |
| Hardness                                   | Nominal Value              | Unit                   | Test Method          |
| Ball Indentation Hardness (H 358/30)       | 79.0                       | MPa                    | ISO 2039-1           |
| Mechanical                                 | Nominal Value              | Unit                   | Test Method          |
| Tensile Modulus                            | 3400                       | MPa                    | ISO 527-2/1A/1       |
| Tensile Stress (Yield)                     | 57.0                       | MPa                    | ISO 527-2/1A/50      |
| Tensile Strain (Yield)                     | 3.0                        | %                      | ISO 527-2/1A/50      |
| Impact                                     | Nominal Value              | Unit                   | Test Method          |
| Charpy Notched Impact Strength             |                            |                        | ISO 179/1eA          |
| -30°C                                      | 5.0                        | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| 23°C                                       | 9.0                        | kJ/m <sup>2</sup>      | ISO 179/1eA          |
| Charpy Unnotched Impact Strength           |                            |                        | ISO 179/1eU          |
| -30°C                                      | No Break                   |                        | ISO 179/1eU          |
| 23°C                                       | No Break                   |                        | ISO 179/1eU          |
| Thermal                                    | Nominal Value              | Unit                   | Test Method          |
| Heat Deflection Temperature                |                            |                        |                      |
| 0.45 MPa, not annealed                     | 97.0                       | °C                     | ISO 75-2/Bf          |
| 1.8 MPa, not annealed                      | 70.0                       | °C                     | ISO 75-2/Af          |
| Vicat Softening Temperature                | 139                        | °C                     | ISO 306/B50          |
| Electrical                                 | Nominal Value              | Unit                   | Test Method          |
| Surface Resistivity                        | > 1.0E+15                  | ohms                   | IEC 60093            |
| Volume Resistivity                         | > 1.0E+13                  | ohms · cm              | IEC 60093            |
| Flammability                               | Nominal Value              | Unit                   | Test Method          |
| Flammability Classification (1.50 mm)      | HB                         |                        | IEC 60695-11-10, -20 |
| Additional Information                     |                            |                        |                      |

- 1.)
- Not for use in food contact applications2.)
- Not for use in medical or pharmaceutical applications

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

