

# Terblend® N NM-21EF

Acrylonitrile Butadiene Styrene + Nylon

INEOS Styrolution Group GmbH

## Message:

Terblend N NM-21EF is a UV-stabilized ABS/PA blend with high impact toughness, excellent flowability and enhanced heat resistance. It is especially suitable for matte automotive interior applications.

| General Information                          |                           |                        |             |
|----------------------------------------------|---------------------------|------------------------|-------------|
| Additive                                     | UV Stabilizer             |                        |             |
| Features                                     | Good Surface Finish       |                        |             |
|                                              | Good UV Resistance        |                        |             |
|                                              | High Flow                 |                        |             |
|                                              | High Impact Resistance    |                        |             |
| Uses                                         | Automotive Applications   |                        |             |
|                                              | Automotive Interior Parts |                        |             |
|                                              | Lawn and Garden Equipment |                        |             |
| Forms                                        | Pellets                   |                        |             |
| Processing Method                            | Injection Molding         |                        |             |
| Physical                                     | Nominal Value             | Unit                   | Test Method |
| Density                                      | 1.07                      | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (240°C/10.0 kg)  | 60.0                      | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                            | 0.80                      | %                      | ISO 294-4   |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 1.3                       | %                      | ISO 62      |
| Mechanical                                   | Nominal Value             | Unit                   | Test Method |
| Tensile Modulus                              | 2100                      | MPa                    | ISO 527-2   |
| Tensile Stress (Yield, 23°C)                 | 45.0                      | MPa                    | ISO 527-2   |
| Tensile Strain (Yield, 23°C)                 | 3.1                       | %                      | ISO 527-2   |
| Flexural Modulus                             | 2000                      | MPa                    | ISO 178     |
| Flexural Stress                              | 65.0                      | MPa                    | ISO 178     |
| Films                                        | Nominal Value             | Unit                   | Test Method |
| Tensile Elongation - MD (Break)              | 25                        | %                      |             |
| Impact                                       | Nominal Value             | Unit                   | Test Method |
| Charpy Notched Impact Strength               |                           |                        | ISO 179     |
| -30°C                                        | 12                        | kJ/m <sup>2</sup>      |             |
| 23°C                                         | 70                        | kJ/m <sup>2</sup>      |             |
| Notched Izod Impact Strength                 |                           |                        | ISO 180/A   |
| -30°C                                        | 11                        | kJ/m <sup>2</sup>      |             |

| 23°C                          | 65            | kJ/m <sup>2</sup> |             |
|-------------------------------|---------------|-------------------|-------------|
| Thermal                       | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature   |               |                   |             |
| 0.45 MPa, Annealed            | 88.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, Annealed             | 63.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature   |               |                   |             |
| --                            | 200           | °C                | ISO 306/A50 |
| --                            | 110           | °C                | ISO 306/B50 |
| CLTE - Flow                   | 1.0E-4        | cm/cm/°C          | ISO 11359-2 |
| Electrical                    | Nominal Value | Unit              | Test Method |
| Surface Resistivity           | 1.0E+14       | ohms              | IEC 60093   |
| Volume Resistivity            | > 1.0E+15     | ohms·cm           | IEC 60093   |
| Relative Permittivity (1 MHz) | 2.90          |                   | IEC 60250   |
| Dissipation Factor (1 MHz)    | 0.018         |                   | IEC 60250   |
| Injection                     | Nominal Value | Unit              |             |
| Processing (Melt) Temp        | 240 to 270    | °C                |             |
| Mold Temperature              | 40.0 to 80.0  | °C                |             |

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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

