

## DESCRIPTION

Terblend® N NG-02 EF is an 8% glass fiber reinforced UV-stabilized ABS/PA blend with enhanced dimensional stability, rigidity and high flowability.

## FEATURES

- High dimensional stability
- Excellent flow for high surface quality appearance
- Enhanced softening temperature
- Enhanced rigidity
- UV-stabilized

## APPLICATIONS

- Automotive parts
- Motorcycle fairings
- Truck cabin parts

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	40
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	12
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	6
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	11
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m <sup>2</sup>	6
Charpy Unnotched, 23° C	ISO 179	kJ/m <sup>2</sup>	50
Charpy Unnotched, -30° C	ISO 179	kJ/m <sup>2</sup>	35
Tensile Stress at Yield, 23° C	ISO 527	MPa	55
Tensile Strain at Yield, 23° C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	3100
Elongation at Break (MD)	ISO 527	%	6
Flexural Strength	ISO 178	MPa	85
Flexural Modulus	ISO 178	MPa	2800
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50°C/h)	ISO 306	°C	118

# Terblend N NG-02EF

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

## TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Vicat Softening Temperature, VST/A/50 (10N, 50°C/h)	ISO 306	°C	200
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	80
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	130
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	60
<b>Electrical Properties</b>			
Dissipation Factor (1 MHz)	IEC 60250	10 <sup>-4</sup>	180
Relative Permittivity (1 MHz)	IEC 60250	-	2.9
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E14
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1120
Moisture Absorption, Equilibrium 23°C/50% RH	ISO 62	%	1.1
Filler Content (% Ash)		%	GF8
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.6
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	40 - 80

Typical values for uncolored products

## SUPPLY FORM

Terblend® N is supplied as cylindrical or lenticular pellets. The bulk density is from about 0.55-0.65 g/cm<sup>3</sup>. Standard pack: 25 kg PE sack, palletized and film-secured. Subject to agreement, other means of packing are possible, e.g. 1000 kg bulk containers (octagonal IBCs, or intermediate bulk containers, made from corrugated board with sack insert) or shipping by road tanker can be arranged. Terblend® N pellets can be stored for prolonged periods in dry areas subject to normal temperature control without any changes in mechanical properties. However, with sensitive colors storage over some years can cause some color change. In poor storage conditions, Terblend® N absorbs moisture, which can be removed again by drying. Packs stored in cold areas should be brought to ambient temperature before opening to prevent condensation on the pellets.

---

## PRODUCT SAFETY

Given appropriate processing of the products and suitable ventilation measures in production areas, no adverse effects on the health of process operator have been found. Workplace limits for styrene, acrylonitrile and 1,3-butadiene, as given in the applicable national listings, must be adhered to. The values currently applicable in Germany under TRGS 900 (issue of September, 1999) for maximum workplace concentrations are as follows. Styrene: 20 ml/m<sup>3</sup> = 85 mg/m<sup>3</sup>; acrylonitrile: 3 ml/m<sup>3</sup> = 7 mg/m<sup>3</sup>; 1,3-butadiene: 5 ml/m<sup>3</sup> = 11 mg/m<sup>3</sup>. Appendix I of Directive 67/548/EWG (issue of 1999) classifies acrylonitrile and 1,3-butadiene in carcinogenic category II (substances which should be regarded as carcinogenic in humans). Experience has shown that during appropriate processing of Terblend® N with suitable ventilation the values obtained are well below the limits mentioned above. TRGS 402 (Germany) can be used for determining and assessing the concentrations of hazardous substances in the air within working areas. Inhalation of gaseous degradation products (e.g. caprolactam), such as those which may arise on severe overheating of the material or during pumped evacuation, must be avoided. Further information can be found in our Terblend® N safety data sheets.

---

## DISCLAIMER

The above information is provided in good faith. INEOS Styrolution is not responsible for any processing or compounding which may occur to product finished articles, packaging materials or their components. Further, INEOS Styrolution **MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN OR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.

---