INEOS STYROLUTION

Terblend N NG-02 UV

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

TECHNICAL DATASHEET

DESCRIPTION

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

FEATURES

- High dimensional stability
- Enhanced rigidity
- Enhanced softening temperature
- Glass fiber reinforced (8%)

APPLICATIONS

- Automotive parts
- Ski-hatch openings
- Motorcycle fairings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 240 °C/10 kg	ISO 1133	cm³/10 min	30
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	6
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	3
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	8
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	3
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	35
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	25
Tensile Stress at Yield, 23 °C	ISO 527	MPa	55
Tensile Strain at Yield, 23 °C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	3300
Elongation at Break (MD)	ISO 527	%	4
Flexural Strength, 23 °C	ISO 178	MPa	80
Flexural Modulus, 23 °C	ISO 178	MPa	2850
Hardness, Ball Indentation	ISO 2039-1	MPa	95
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	108

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Property, Test Condition	Standard	Unit	Values
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	170
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	105
Coefficient of Linear Thermal Expansion	ISO 11359	10^(-6)/°C	60
Electrical Properties			
Dissipation Factor (1 MHz)	IEC 60250	10^(-4)	130
Relative Permittivity (1 MHz)	IEC 60250	-	2.9
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E14
Other Properties			
Density	ISO 1183	kg/m³	1120
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	1.1
Filler Content (% Ash)		%	GF8
Processing			
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/cm3. 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.

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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/m3 = 85 mg/m3; acrylonitrile: 3 ml/m3 = 7 mg/m3; 1,3-butadiene: 5 ml/m3 = 11 mg/m3. 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

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