FICHA TÉCNICA



Terblend® N NM-11

The Chemical Company

(ABS+PA)

PRODUCT DESCRIPTION

Terblend N NM-11 is an ABS/PA blend combining very high impact strength, even at low temperatures, with an excellent processability and surface appearance.

PHYSICAL FORM AND STORAGE

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 áreas 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, alphamethylstyrene and acrylonitrile and 1,3-butadiene, as given in the national listings applicable, 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; alpha-methylstyrene: 100 ml/m3 = 480 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. These can be requested from the Styrenics Infopoint by phoning +49 621 60-4 14 46, fax: +49 621 60-4 60 06, or by e-mail: styrenics.infopoint@basf-ag.de.

NOTE

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

BASF Aktiengesellschaft 67056 Ludwigshafen, Germany

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Typical values at 23℃ 1)	Test method 2)	Unit	Values 3)	
PROPERTIES	1			
Polymer abbreviation Density Moisture absorption, equillibrium 23°C/50%r.h.	ISO 1183 similar to ISO 62	kg/m³ %	(ABS+PA) 1070 1.4	
PROCESSING				
Melt mass-flow rate MVR Temperature Load Method: Injection moulding (M), Extrusion (E) Melt temperature, injection moulding Mould temperature, injection moulding	ISO 1133 ISO 1133 ISO 1133 - - - -	cm³/10min °C kg - °C °C °C	30 240 10 M. E 240 - 280 40 - 80	
FLAMMABILITY				
UL rating at 1.6 mm thickness	UL 94	Class	HB	
MECHANICAL PROPERTIES			dry / cond.	
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Nominal strain at break, 50 mm/min Flexural modulus Flexural strength Charpy unnotched impact strength (23°C) Charpy unnotched impact strength (-30°C) Charpy notched impact strength (-30°C) Izod notched impact strength (-30°C) Izod notched impact strength (-30°C) Izod notched impact strength (-30°C) Rockwell hardness Ball indentation hardness Force Duration	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 180/1A ISO 2039-1 ISO 2039-1 ISO 2039-1 ISO 2039-1	MPa MPa % MPa kJ/m² kJ/m² kJ/m² kJ/m² kJ/m² class MPa N s	2000 / 1600 43 / 34 3.5 / 5.5 >50 / >50 1800 / - 62 / - N/- N/- 65 / - 15 / - 65 / - 15 / - R103 86 / 70 358 / 358 30 / 30	
THERMAL PROPERTIES				
HDT A (1.80 MPa) HDT B (0.45 MPa) Vicat softening temperature VST/A/50 Vicat softening temperature VST/B/50 Coefficient of linear thermal expansion, longitudinal (23-80)°C	ISO 75-1/-2 ISO 75-1/-2 ISO 306 ISO 306 ISO 11359-1/-2	°C °C °C E-4/°C	65 85 160 102 1	
ELECTRICAL PROPERTIES				
Relative permittivity (1 MHz) Dissipation factor (1 MHz) Volume resistivity Surface resistivity	IEC 60250 IEC 60250 IEC 60093 IEC 60093	E-4 Ohm*m Ohm	2.9 / 3.3 150 / 550 >1E13 / 1E11 1E14	

Footnotes

1) If the product definition doesn't state otherwise.

2) Specimens according to CAMPUS.
3) The asterisk symbol '*' signifies inapplicable properties.

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