FICHA TÉCNICA



Terluran® SP-6

ABS



PRODUCT DESCRIPTION

High impact grade, suitable for extrusion.

PHYSICAL FORM AND STORAGE

Terluran® is delivered in the form of spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm³. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film or delivery in silo trucks.

In dry areas with normal temperature control, Terluran® pellets can be stored for relatively long periods of time without any change in mechanical properties. Under poor storage conditions, Terluran® absorbs moisture, but this can be removed by drying.

PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated.

For styrene, alpha-methylstyrene, acrylonitrile, and 1,3-butadiene the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid (Oct. 2002): styrene, MAK-value: 20 ml/m³ = 86 mg/m³; alpha-methylstyrene, MAK-value: 100 ml/m³ = 480 mg/m³; acrylonitrile, TRK-value: 3 ml/m³ = 7 mg/m³ and 1,3-butadiene, TRK-value: 5 ml/m³ = 11 mg/m³.

According to EU directive 67/548/EWG, Annex I and TRGS 905 (Oct. 2002), acrylonitrile and 1,3butadiene are classified as carcinogenic, category 2 ('substances which should be regarded as if they are carcinogenic to man') and 1 (substances known to be carcinogenic to man), respectively.

Experience has shown that during appropriate processing of Terluran 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 harzardous substances in the air within working areas.

Inhalation of gaseous degradation products, 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 Terluran safety data sheets. These can be downloaded from the Plastics Portal, www.plasticsportal.net.

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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PLÁSTICOS Terluran® ABS	Terluran® SP-6 ABS		The Chemical Company	
Typical values 1) at 23℃	Test method 2)	Unit	Values 3)	
PROPERTIES				
Polymer abbreviation Density Water absorption, equilibrium in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h.	- ISO 1183 similar to ISO 62 similar to ISO 62	- kg/m³ %	ABS 1030 1.03 0.21	
PROCESSING				
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Melt volume-flow rate MVR 220 °C/10 kg Pre-drying: Temperature Pre-drying: Time Melt temperature, extrusion pipes Melt temperature, extrusion sheets	ISO 1133 - - -	cm³/10min °C h °C °C	E 5.5 80 2-4 200 - 230 210 - 240	
FLAMMABILITY				
UL94 rating at 1.6 mm thickness	UL 94	class	НВ	
MECHANICAL PROPERTIES				
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Nominal strain at break, 50 mm/min Flexural strength Charpy impact strength (23°C) Izod notched impact strength (23°C) Izod notched impact strength (-30°C) Charpy notched impact strength (-30°C) Charpy notched impact strength (-30°C) Izod notched impact strength (-30°C) Ball indentation hardness at 358 N/30 s Rockwell hardness	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eU ISO 180/A ISO 180/A ISO 180/A ISO 179/1eA ASTM D 256 ISO 2039-1 ISO 2039-2	MPa MPa % MPa kJ/m² kJ/m² kJ/m² kJ/m² J/m MPa class	1700 37 3 9 56 N 140 36 14 35 13 410 74 HRR 84	
THERMAL PROPERTIES		· · · ·		
HDT A (1.80 MPa) HDT B (0.45 MPa) Vicat softening temperature VST/A/50 Vicat softening temperature VST/B/50 Max. service temperature (short cycle operation) Coefficient of linear thermal expansion, longitudinal (23-80)°C Thermal conductivity	ISO 75-1/-2 ISO 75-1/-2 ISO 306 ISO 306 - ISO 11359-1/-2 DIN 52612-1	°C °C °C °C E-4/°C W/(m K)	96 101 103 90 80 0.8 - 1.1 0.17	
ELECTRICAL PROPERTIES				
Relative permittivity (100Hz) Relative permittivity (1 MHz) Dissipation factor (100 Hz) Dissipation factor (1 MHz) Volume resistivity Electric strength K20/P50, d = 0.6 - 0.8 mm Comparative tracking index, CTI, test liquid A	IEC 60250 IEC 60250 IEC 60250 IEC 60250 IEC 60093 IEC 60243-1 IEC 60112	E-4 E-4 Ohm*m kV/mm	2.9 2.8 54 82 >1E13 40 600	

If the product definition doesn't state otherwise.
Specimens according to CAMPUS.
The asterisk symbol '*' signifies inapplicable

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