

Luran® 348 Q



PRODUCT DESCRIPTION

Highly transparent grade with light natural colour.

PHYSICAL FORM AND STORAGE

Luran® is supplied as cylindrical or lenticular pellets. The bulk density is approx. 0.55-0.65 g/cm³. Standard pack: 25 kg PE sack, palletized and film-secured. PE bags should not be stored outside. Subject to agreement, other means of packing are possible, e.g. 1000 kg bulk containers (flexible IBCs or intermediate bulk big bag containers); shipping by road tanker can be arranged. Luran® pellets can be stored for prolonged periods in dry areas subject to normal temperature control without any changes in mechanical properties. However, for sensitive colors storage over some years can cause some color change. And poor storage conditions, Luran 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 operators have been found. Workplace limits for styrene and acrylonitrile, as given in the national listings applicable, must be adhered to.

The values currently applicable in Germany under TRGS 900 (issue of October, 2002) for maximum workplace concentrations are as follows. Styrene: $20 \text{ ml/m}^3 = 86 \text{ mg/m}^3$; acrylonitrile: $3 \text{ ml/m}^3 = 7 \text{ mg/m}^3$. Appendix I of Directive 67/548/EWG and TRGS 905 (issue of October,2002) classify acrylonitrile in carcinogenic category II (substances which should be regarded as carcinogenic in humans).

Experience has shown that during appropriate processing of Luran 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, 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 Luran 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



Luran® 348 Q SAN



Typical values for uncoloured product at 23 ℃1)	Test method 2)	Unit	Values 3)
PROPERTIES			·
Polymer abbreviation Density Moisture absorption, equilibrium 23°C/50% r.h.	ISO 1183 similar to ISO 62	kg/m³ %	SAN 1080 0.2
PROCESSING			
Method: Injection moulding (M), Extrusion (E) Melt volume-flow rate MVR 220 °C/10 kg Melt volume-flow rate MVR 200 °C/21.6 kg Pre-drying: Temperature Pre-drying: Time Melt temperature, injection moulding Mould temperture, injection moulding Moulding shrinkage, free, longitudinal	ISO 1133 ISO 1133 	cm³/10min cm³/10min °C h °C °C °C	M 19 27 80 2-4 200 - 250 40 - 80 0.3 - 0.7
FLAMMABILITY			
UL94 rating at 1.6 mm thickness	UL 94	class	НВ
MECHANICAL PROPERTIES			_
Tensile modulus Stress at break Strain at break Flexural strength Charpy unnotched impact strength (23°C) Izod notched impact strength, 1A (23°C) Charpy notched impact strength (23°C) Ball indentation hardness at 358 N/30 s Rockwell hardness	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 180/A ISO 179/1eA ISO 2039-1 ISO 2039-2	MPa MPa % MPa kJ/m² kJ/m² MPa class	3600 70 2.5 115 14 1.5 1.5 160 M77
THERMAL PROPERTIES			
HDT A (1.80 MPa) HDT B (0.45 MPa) Vicat softeneing temperature VST B50 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 11359-1/-2 DIN 52612-1	°C °C °C °C E-4/°C W/(m K)	86 99 105 85 0.7 0.17
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz) Relative permittivity (1 MHz) Dissipation factor (100 Hz) Dissipation factor (1 MHz) Volume resistivity Surface resistivity Electric strength K20/P50, d = 1 mm	IEC 60250 IEC 60250 IEC 60250 IEC 60250 IEC 60093 IEC 60093 IEC 60243-1	- E-4 E-4 Ohm*m Ohm kV/mm	2.9 2.8 40 70 1E14 >1E15 37

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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