

Terluran EGP-7

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL
DATASHEET

DESCRIPTION

Terluran® EGP-7 is an extrusion grade with well balanced properties.

FEATURES

- UL 94 HB

APPLICATIONS

- Refrigerator liners
- Water pipe
- Coextrusion with Luran S (ASA)

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	5
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	34
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	14
Charpy Notched Impact Strength, 23 °C	ISO 179/1eA	kJ/m ²	33
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	14
Tensile Stress at Yield, 23 °C	ISO 527	MPa	43
Tensile Strain at Yield, 23 °C	ISO 527	%	2.9
Tensile Modulus	ISO 527	MPa	2400
Flexural Strength, 23 °C	ISO 178	MPa	65
Flexural Modulus, 23 °C	ISO 178	MPa	2000
Hardness, Ball Indentation	ISO 2039-1	MPa	97
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	100
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	107
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	101
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	103
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80 - 110

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Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Volume Resistivity	IEC 60093	Ohm*m	10 ¹³
Other Properties			
Density	ISO 1183	kg/m ³	1030
Water Absorption, Saturated at 23 °C	ISO 62	%	0.95
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.21
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	203 - 250
Max Service Temperature	-	°C	80

Typical values for uncolored products

SUPPLY FORM

Terluran® is delivered as 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. PE bags should not be stored outside. 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, 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; 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 1,3-butadiene 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 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 Terluran safety data sheets.

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DISCLAIMER

The aforementioned data shall constitute the agreed contractual quality of the product sold by INEOS Styrolution at the time of passing of risk. INEOS Styrolution does not make any further warranty, representation or guarantee of any kind, express or implied, regarding the suitability of the product for any particular purpose or application and INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.
