

Luran S 747R

Acrylonitrile Styrene Acrylate (ASA)

TECHNICAL DATASHEET

DESCRIPTION

Luran® S 747R is a high flow, low gloss extrusion grade with enhanced strength properties. The enhanced flow properties make the product suitable for co-extruded applications

FEATURES

- Low gloss in extrusion
- High flowability
- Good impact strength

APPLICATIONS

- Decking
- Fencing
- Profiles

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ASTM D 1238	cm³/10 min	7
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	2.1
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	0.3
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	80
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	7700
Tensile Strain at Yield, 23 °C	ASTM D 638	%	3
Tensile Modulus (MD)	ASTM D 882	psi	34000
Flexural Strength, 23 °C	ASTM D 790		10900
Flexural Modulus	ASTM D 790	kg/cm²	25000
Hardness, Rockwell	ASTM D 785	R scale	109.8
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	212
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	-	°F	200
DTUL @ 264 psi - Annealed	ASTM D 648	°F	190
Other Properties			
Density	ASTM D 792	lb/in³	1.09

**INEOS
STYROLUTION**

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Property, Test Condition	Standard	Unit	Values
Processing			
Melt Temperature Range	-	°F	464 - 536
Mold Temperature Range	-	°F	104 - 176
Drying Temperature	-	°F	176

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities. Please consult our local sales or technical representatives for details.

SUPPLY FORM

Luran® S is delivered in the form of cylindrical or spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm³. Values may differ for special grades. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Luran S pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Luran S absorbs moisture, but this can be removed by drying.

PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed where the products are correctly processed and the production areas are suitably ventilated. For styrene, alpha-methylstyrene, acrylonitrile, and butyl acrylate the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid TRGS 900 (Aug. 2004): styrene, MAK-value: 20 ml/m³; alpha-methylstyrene, MAK-value: 100 ml/m³; acrylonitrile, TRK-value: 3 ml/m³, and butyl acrylate, MAK-value: 2 ml/m³ (1.7.2004). According to EU directive 67/548/EEC, Annex I (2001), acrylonitrile is classified as carcinogenic, category 2 ('substances which should be regarded as if they are carcinogenic to man'). Experience has shown that when Luran® S is processed correctly with appropriate ventilation, the levels are far below the limits mentioned above. Inhalation of the vapors of degradation products which can arise on severe overheating of the materials or during purging out should be avoided. Further information can be found in the Luran S safety data sheets.

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. 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.