

INEOS
STYROLUTION**Luran S Q440**

Acrylonitrile Styrene Acrylate (ASA)

**TECHNICAL
DATASHEET****DESCRIPTION**

Luran® S Q440 is a low gloss extrusion ASA grade with excellent weatherability. Q440 is especially suited for the building and construction market as a low gloss weatherable cap layer. It is provided with a base loading of TiO₂ to help in the coloring of the product with a color concentrate.

FEATURES

- Excellent weatherability
- Low gloss

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	4
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	1.8
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	1
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	133
Instrumented Dart Impact (Peak force)	ASTM D 3763	in-lbs	88.9
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	4780
Tensile Modulus	ASTM D 638	psi x 10 ³	260
Elongation, Failure	ASTM D 638	%	2.6
Flexural Strength, 23 °C	ASTM D 790		7540
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	264
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	190
DTUL @ 264 psi - Annealed	ASTM D 648	°F	181
CLTE, -30 to 70, E-4/°C	ASTM D 648	in/in	46
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		21

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Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ASTM D 792	lb/in ³	1.09

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.

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.