

# Luran® S Q440

## Acrylonitrile Styrene Acrylate

### BASF Corporation

#### Product Description

Luran S Q440 is a low gloss extrusion ASA grade with excellent weatherability. Luran S 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 TiO<sub>2</sub> to help in the coloring of the product with a color concentrate. How dark the final application is determines the level of TiO<sub>2</sub> in a grade. The data represented is based on 0.125" thick extruded sheets in the cross flow direction.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier	• Titanium Dioxide (TiO <sub>2</sub> )	
Features	• Good Weather Resistance	• Impact Modified	• Low Gloss
Uses	• Building Materials		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Sheet Extrusion	• Thermoforming
	• Profile Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm <sup>3</sup>	ASTM D792
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm <sup>3</sup> /10min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1790	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	33.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 23°C)	2.6	%	ASTM D638
Flexural Modulus (23°C)	1820	MPa	ASTM D790
Flexural Strength (23°C)	52.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	54.0	J/m	
23°C	96.0	J/m	
Instrumented Dart Impact			ASTM D3763
Energy to Peak Force	10.0	J	
Total Energy	15.0	J	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Annealed	83.0	°C	
Vicat Softening Temperature	88.0	°C	ASTM D1525 <sup>3</sup>
CLTE - Flow (-30 to 70°C)	0.00079	cm/cm/°C	ASTM D696

Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°)	21		ASTM D523

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 51 mm/min

<sup>3</sup> Rate A (50°C/h), Loading 2 (50 N)

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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