

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
Melt Volume Rate 220 °C/10 kg	ASTM D 1238	cm ³ /10 min	5
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
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	0.5
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

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Property, Test Condition	Standard	Unit	Values
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		21
Other Properties			
Density	ASTM D 792	lb/in ³	1.09