

BASF Luran® S Q440 ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

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 TiO₂ to help in the coloring of the product with a color concentrate. How dark the final application is determines the level of TiO₂ in a grade. The data representable is based on 0.125" thick extruded sheets in the cross flow direction.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Luran-S-Q440-ASA.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM Test

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	2 in/min; ASTM Test
Elongation at Yield	2.6 %	2.6 %	2 in/min; ASTM Test
Tensile Modulus	1.79 GPa	260 ksi	ASTM Test
Flexural Strength	52.0 MPa	7540 psi	ASTM Test
Flexural Modulus	1.82 GPa	264 ksi	ASTM Test
Izod Impact, Notched	0.540 J/cm @Temperature -30.0 °C	1.01 ft-lb/in @Temperature -22.0 °F	ASTM Test
	0.960 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM Test
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	ASTM Test
Impact Test	10.0 J	7.38 ft-lb	Instrumented Dart Impact (Energy at Peak Force); ASTM Test

Thermal Properties	Metric	English	Comments
CTE, linear	7.90 µm/m-°C @Temperature -30.0 - 70.0 °C	4.39 µin/in-°F @Temperature -22.0 - 158 °F	ASTM Test
Deflection Temperature at 1.8 MPa	83.0 °C	181 °F	

(264 psi) Thermal Properties	Metric	English	annealed: ASTM Test Comments
Vicat Softening Point	88.0 °C	190 °F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test

Optical Properties	Metric	English	Comments
Gloss	21 %	21 %	60° Specular; ASTM Test

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Extrusion	
Processing	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	
Special characteristic	Heat stabilized or stable to heat	
	Light stabilized or stable to light	
	U.V. stabilized or stable to weather	

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