



Luran® S 796M

INEOS Styrolution - Acrylonitrile Styrene Acrylate

Sunday, November 3, 2019

General Information

Product Description

Luran® S 796M is suitable for extrusion and injection molding. It provides a medium flowability and enhanced impact strength.

FEATURES

- Enhanced impact strength
- Medium flowability

APPLICATIONS

- Sheets
- Truck cabin parts

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance	• Medium Flow	
Uses	• Automotive Applications	• Sheet	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	9.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (Saturation, 73°F)	1.7	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	290000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	5950	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.5	%	ISO 527-2
Nominal Tensile Strain at Break (73°F)	13	%	ISO 527-2
Flexural Stress (73°F)	8700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.4	ft-lb/in ²	
73°F	14	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	9430	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ² (66 psi, Annealed)	212	°F	ISO 75-2/B
Heat Deflection Temperature ² (264 psi, Annealed)	203	°F	ISO 75-2/A

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	219	°F	ISO 306/A50
--	194	°F	ISO 306/B50
CLTE - Flow	4.4E-5 to 6.1E-5	in/in/°F	ISO 11359-2
Thermal Conductivity	1.2	Btu·in/hr/ft²/°F	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	0.010		
1 MHz	0.025		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	104 to 176	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 4h/80°C