Luran® S 796 M

Acrylonitrile Styrene Acrylate

BASF Corporation

Product Description
High-impact injection moulding grade with good flowability (eg trim panels for goods vehicles). Available in Europe only.

General			
Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Good Flow	• High Impact Resistance	
Uses	• Automotive Interior Trim		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	• Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	9.00	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
24 hr, 23°C	0.45	%	
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.35	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	41.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	13	%	ISO 527-2/50
Flexural Strength (23°C)	60.0	MPa	ISO 178
Shear Modulus (23°C)	700	MPa	ISO 537
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.0	kJ/m²	
23°C	30	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	150	kJ/m²	
23°C	250	kJ/m²	
Notched Izod Impact (23°C)	600	J/m	ASTM D256A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	65.0	MPa	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	104	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)	0.000080 to 0.00011	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	ISO 8302

Luran® S 796 M

Tuesday, December 22, 2009

Acrylonitrile Styrene Acrylate

BASF Corporation

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.80		
23°C, 1 MHz	3.30		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.010		
23°C, 1 MHz	0.025		
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Electric Strength	35	kV/mm	IEC 60243-1

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)	HB		UL 94

Additional Information
The value listed as Thermal Conductivity, ISO 8302, was tested in accordance with DIN 52612-2. Flammability by electrical sources of ignition, IEC 60707, Method BH, 4mm: HB Maximum Service Temperature (Short Cycle Operation): 80°C

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	40.0 to 80.0	°C

Notes

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