

# Luran® S 797 S

## Acrylonitrile Styrene Acrylate

### BASF Corporation

**Product Description**  
Grade with especially high notched impact strength (eg for lighting covers, lawn mower housings).

General		
Material Status	• Commercial: Active	
Availability	• Europe	
Features	• High Impact Resistance	
Uses	• Housings	
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1)	• 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/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.50	cm <sup>3</sup> /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)	42.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	11	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	1100	MPa	ISO 899-1
Flexural Strength (23°C)	60.0	MPa	ISO 178
Shear Modulus (23°C)	730	MPa	ISO 537

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m <sup>2</sup>	
23°C	40	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	180	kJ/m <sup>2</sup>	
23°C	250	kJ/m <sup>2</sup>	
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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 22, 2009

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	0.0090		
23°C, 1 MHz	0.026		
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**

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

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