

# Luran® 388 S

## Styrene Acrylonitrile

### BASF Corporation

**Product Description**  
Specialty grade with highest mechanical strength and chemical resistance.

General		
Material Status	• Commercial: Active	
Availability	• Europe	
Features	• Good Chemical Resistance	• High Strength
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Extrusion	• 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	1.08	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
200°C/21.6 kg	9.00	cm <sup>3</sup> /10min	
220°C/10.0 kg	7.00	cm <sup>3</sup> /10min	
Molding Shrinkage - Flow	0.30 to 0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	79.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	2800	MPa	ISO 899-1
Flexural Strength (23°C)	140	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	21	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (23°C)	2.50	kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ISO 2039-2
Ball Indentation Hardness (H 358/30)	175	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	102	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)	0.000070	cm/cm°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	ISO 8302

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.00		
23°C, 1 MHz	2.80		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0050		
23°C, 1 MHz	0.0080		
Electric Strength (23°C, 1.00 mm)	34	kV/mm	IEC 60243-1

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

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

**Additional Information**

The value listed as Thermal Conductivity, ISO 8302, was tested in accordance with DIN 52612-2.  
Electric Strength, IEC 60243-1, K20/P50, 1mm, 23°C: 34 kV/mm  
Maximum Service Temperature (Short Cycle Operation): 85°C  
Surface Resistivity, IEC 60093, 100V: >1E15 ohm-m  
Volume Resistivity, IEC 60093, 100V: 1E14 ohm-m

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	220 to 260	°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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