

# Luran® S 777 K

## Acrylonitrile Styrene Acrylate

### BASF Corporation

**Product Description**  
 Particularly easy flowing injection molding grade for difficult moldings with large flow path/wall thickness ratios.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Impact Modifier	• Mold Release	
Features	• Good Flow	• Good Toughness	• Impact Modified
Agency Ratings	• ULC Unspecified Rating		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
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
Specific Gravity	--	1.07 g/cm <sup>3</sup>	ASTM D792
	--	1070 kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt Volume-Flow Rate (MVR)			
220°C/10.0 kg	13.0	cm <sup>3</sup> /10min	ASTM D1238
220°C/10.0 kg	15.0	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage - Flow	0.55	%	ASTM D955
Water Absorption (Saturation, 23°C)	1.7	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2300	MPa	ASTM D638
--	2300	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Yield, 23°C	44.0	MPa	ASTM D638
Yield, -40°C	79.0	MPa	ISO 527-2
Yield	48.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Yield)	3.3	%	ISO 527-2 <sup>2</sup>
Tensile Creep Modulus			ISO 899-1 <sup>2</sup>
1 hr	1850	MPa	
1000 hr	1400	MPa	
Flexural Modulus (23°C)	2300	MPa	ASTM D790
Flexural Strength			
23°C	61.0	MPa	ASTM D790
23°C	70.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA <sup>2</sup>
-30°C	4.00	kJ/m <sup>2</sup>	
23°C	17.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-30°C	90	kJ/m <sup>2</sup>	
23°C	250	kJ/m <sup>2</sup>	
Notched Izod Impact			ASTM D256
-40°C	37.0	J/m	
23°C	180	J/m	
Instrumented Dart Impact			ASTM D3763
Energy to Peak Force	51.0	J	
Total Energy	56.0	J	

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

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	101	°C	ASTM D648
0.45 MPa	101	°C	ISO 75-2 <sup>2</sup>
1.8 MPa, Annealed	97.0	°C	ASTM D648
1.8 MPa	97.0	°C	ISO 75-2 <sup>2</sup>
Vicat Softening Temperature			
--	97.0	°C	ASTM D1525 <sup>3</sup>
50°C/h, B (50N)	97.0	°C	ISO 306 <sup>2</sup>
CLTE - Flow	0.000095	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	ASTM D257 IEC 60093 <sup>2</sup>
Volume Resistivity			
--	> 1.0E+12	ohm·cm	ASTM D257
--	> 1.0E+10	ohm·m	IEC 60093 <sup>2</sup>
Dielectric Constant			
1.00 mm, 1 MHz	3.40		ASTM D150
100 Hz	3.70		IEC 60250 <sup>2</sup>
1 MHz	3.40		IEC 60250 <sup>2</sup>
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	110		
1 MHz	240		
Comparative tracking index	600		IEC 60112 <sup>2</sup>
Electric Strength (1.50 mm)	35	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Re grind	30	%	
Rear Temperature	240 to 280	°C	
Middle Temperature	240 to 280	°C	
Front Temperature	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.  
<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.  
<sup>3</sup> Rate A (50°C/h), Loading 2 (50 N)

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