

# Luran® 378 P G7

## Styrene Acrylonitrile

### BASF Corporation

Product Description				
Glass-reinforced grade with very high stiffness and low thermal coefficient of linear expansion.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Filler / Reinforcement	• Glass Fiber Reinforcement, 35% Filler by Weight			
Features	• High Stiffness			
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) • Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)			
Physical		Nominal Value	Unit	Test Method
Density		1.36	g/cm <sup>3</sup>	ISO 1183
Apparent Density		0.55 to 0.65	g/cm <sup>3</sup>	ISO 60
Melt Volume-Flow Rate (MVR)				ISO 1133
200°C/21.6 kg		4.00	cm <sup>3</sup> /10min	
220°C/10.0 kg		4.00	cm <sup>3</sup> /10min	
Molding Shrinkage				ISO 294-4
Across Flow		0.20	%	
Flow		0.10	%	
Water Absorption (Equilibrium, 23°C, 50% RH)		0.25	%	ISO 62
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus (23°C)		12000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)		110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)		2.0	%	ISO 527-2
Tensile Creep Modulus (1000 hr)		7500	MPa	ISO 899-1
Flexural Strength (23°C)		150	MPa	ISO 178
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)		4.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)		17	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (23°C)		4.00	kJ/m <sup>2</sup>	ISO 180/1A
Hardness		Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)		93		ISO 2039-2
Ball Indentation Hardness (H 358/30)		240	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed		108	°C	ISO 75-2/B
1.8 MPa, Unannealed		104	°C	ISO 75-2/A
Vicat Softening Temperature		109	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)		0.000025	cm/cm/°C	ISO 11359-2
Thermal Conductivity		0.19	W/m/K	DIN 52612
Maximum Service Temperature				
Short Cycle Operation		90	°C	

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！

**Luran® 378 P G7**  
**Styrene Acrylonitrile**  
**BASF Corporation**

Tuesday, December 22, 2009

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	3.50		
23°C, 1 MHz	3.20		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0070		
23°C, 1 MHz	0.010		
Electric Strength <sup>2</sup> (23°C, 1.00 mm)	39	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
0.800 mm		HB	
1.60 mm		HB	
Additional Information	Nominal Value	Unit	
Polymer Abbreviation	SAN	GF35	
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	60.0 to 80.0	°C	

**Notes**

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

<sup>2</sup> K20/P50

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！