

Luran® S 776 S

Acrylonitrile Styrene Acrylate

BASF Corporation

Product Description				
Injection moulding grade with good toughness and strength. Uses include parts for garden equipment, parts for office chairs and antennas.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Features	• Good Strength	• Good Toughness		
Uses	• Furniture	• Lawn and Garden Equipment		
RoHS Compliance	• RoHS Compliant			
Forms	• Pellets			
Processing Method	• Injection Molding			
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1)	• Isothermal Stress vs. Strain (ISO 11403-1)	• Viscosity vs. Shear Rate (ISO 11403-2)	
	• Isochronous Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)		
Physical		Nominal Value	Unit	Test Method
Density		1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)		4.00	cm ³ /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)		2200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)		47.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)		3.3	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)		12	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)		1200	MPa	ISO 899-1
Flexural Strength (23°C)		65.0	MPa	ISO 178
Shear Modulus (23°C)		800	MPa	ISO 537
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C		3.0	kJ/m ²	
23°C		30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C		150	kJ/m ²	
23°C		270	kJ/m ²	
Notched Izod Impact (23°C)		285	J/m	ASTM D256A
Hardness		Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)		70.0	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed		101	°C	ISO 75-2/B
1.8 MPa, Unannealed		96.0	°C	ISO 75-2/A
Vicat Softening Temperature				
--		104	°C	ISO 306/A50
--		92.0	°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

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	3.40		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0090		
23°C, 1 MHz	0.034		
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.

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