

Luran® S 778 TE

Acrylonitrile Styrene Acrylate

BASF Corporation

Product Description				
Extrusion grade with enhanced toughness and heat distortion resistance.				
General				
Material Status	• Commercial: Active			
Availability	• Europe			
Features	• Good Toughness	• High Heat Resistance		
RoHS Compliance	• RoHS Compliant			
Forms	• Pellets			
Processing Method	• Extrusion			
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		1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)		5.00	cm ³ /10min	ISO 1133
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)		2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)		54.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)		3.4	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)		8.0	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)		1250	MPa	ISO 899-1
Flexural Strength (23°C)		80.0	MPa	ISO 178
Shear Modulus (23°C)		900	MPa	ISO 537
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C		4.0	kJ/m ²	
23°C		15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C		90	kJ/m ²	
23°C		250	kJ/m ²	
Notched Izod Impact (23°C)		250	J/m	ASTM D256A
Hardness		Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)		85.0	MPa	ISO 2039-1
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed		106	°C	ISO 75-2/B
1.8 MPa, Unannealed		103	°C	ISO 75-2/A
Vicat Softening Temperature				
--		113	°C	ISO 306/A50
--		104	°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	3.90		
23°C, 1 MHz	3.50		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0090		
23°C, 1 MHz	0.033		
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): 90°C

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr

Extrusion Notes

Pipe Extrusion Melt Temperature: 200 to 240°C
 Plate Extrusion Melt Temperature: 230 to 270°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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