

Luran® S 778 T

Acrylonitrile Styrene Acrylate

BASF Corporation

Product Description

Luran S 778 T is an injection molding ASA grade with enhanced toughness and heat resistance.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Impact Modifier	• Mold Release	
Features	• Good Toughness	• High Heat Resistance	• 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)	• Isothermal Stress vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)
	• Isochronous 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 ³	ASTM D792
--	1070	kg/m ³	ISO 1183 ²
Melt Volume-Flow Rate (MVR)			
220°C/10.0 kg	5.00	cm ³ /10min	ASTM D1238 ISO 1133 ²
230°C/3.8 kg	1.10	cm ³ /10min	ASTM D1238
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	2360	MPa	ASTM D638
--	2500	MPa	ISO 527-2 ²
Tensile Strength			
Yield, 23°C	49.0	MPa	ASTM D638
Yield, -40°C	79.0	MPa	ISO 527-2
Yield, 80°C	24.0	MPa	ISO 527-2
Yield	54.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	3.4	%	ISO 527-2 ²
Tensile Creep Modulus (1000 hr)	1250	MPa	ISO 899-1 ²
Flexural Modulus (23°C)	2500	MPa	ASTM D790
Flexural Strength			
23°C	71.0	MPa	ASTM D790
23°C	80.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	4.00	kJ/m ²	
23°C	15.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	90	kJ/m ²	
23°C	250	kJ/m ²	
Notched Izod Impact			ASTM D256
-40°C	37.0	J/m	
23°C	250	J/m	
Instrumented Dart Impact			ASTM D3763
Energy to Peak Force	44.0	J	
Total Energy	47.0	J	

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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Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	106	°C	ASTM D648
0.45 MPa	106	°C	ISO 75-2 ²
1.8 MPa, Annealed	103	°C	ASTM D648
1.8 MPa	103	°C	ISO 75-2 ²
Vicat Softening Temperature			
--	104	°C	ASTM D1525 ³
50°C/h, B (50N)	104	°C	ISO 306 ²
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 ²
Volume Resistivity			
--	> 1.0E+12	ohm·cm	ASTM D257
--	> 1.0E+10	ohm·m	IEC 60093 ²
Dielectric Constant			
1.00 mm, 1 MHz	3.50		ASTM D150
100 Hz	3.90		IEC 60250 ²
1 MHz	3.50		IEC 60250 ²
Dissipation Factor			IEC 60250 ²
100 Hz	0.0090		
1 MHz	0.033		
Comparative tracking index	600		IEC 60112 ²
Electric Strength (1.50 mm)	35	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Drying Temperature	79.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Regrind	30	%	
Processing (Melt) Temp	241 to 279	°C	
Mold Temperature	40.6 to 79.4	°C	

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

³ Rate A (50°C/h), Loading 2 (50 N)

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