

Luran® S 778TE

Acrylonitrile Styrene Acrylate
Styrolution

Message:

Luran S 778TE is an extrusion grade with enhanced heat resistance and best chemical resistance among the ASA grades.

General Information			
Features	Good Chemical Resistance		
	Good Stiffness		
Uses	Household Goods		
	Housings		
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 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.00	cm³/10min	ISO 1133
Molding Shrinkage	0.50 to 0.90	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.35	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	85.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	54.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.4	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	1250	MPa	ISO 899-1
Flexural Stress	80.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	8.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m ²	
23°C	15	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	4.0	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Annealed	103	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/A50
--	104	°C	ISO 306/B50
CLTE - Flow	8.0E-5 to 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	3.90		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	9.0E-3		
1 MHz	0.033		
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

