

Luran® S 797S

Acrylonitrile Styrene Acrylate
Styrolution

Message:

Luran S 797S is suitable for injection molding applications. It provides the highest impact toughness within the product line.

General Information			
UL YellowCard	E108538-100840266		
Features	High Impact Resistance		
Uses	Automotive Applications		
	Sporting Goods		
Forms	Pellets		
Processing Method	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)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Apparent Density ¹	0.59	g/cm³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.50	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	65.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.5	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	1100	MPa	ISO 899-1
Flexural Stress	60.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	11	%	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179
-30°C	9.0	kJ/m ²	
23°C	40	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	10	kJ/m ²	
23°C	30	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	100	°C	ISO 75-2/B
1.8 MPa, Annealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	104	°C	ISO 306/A50
--	90.0	°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)	3.80		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	9.0E-3		
1 MHz	0.026		
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	60.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	With external lubricant		

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