

Luran® 368R

Styrene Acrylonitrile
Styrolution

Message:

Luran 368R is a general purpose grade of SAN with well-balanced properties, suitable for injection molding and extrusion. It features very good transparency, good heat resistance and very good dimensional stability.

General Information			
UL YellowCard	E108538-100840247		
Features	General Purpose		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Surface Finish		
	High Clarity		
	Medium Heat Resistance		
Uses	Appliances		
	Cosmetic Packaging		
	Filtration Media		
	General Purpose		
	Sanitary Products		
	Seats		
Forms	Pellets		
Processing Method	Extrusion		
	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)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Apparent Density ¹	0.65	g/cm³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	ISO 294-4

Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		
Ball Indentation Hardness	165	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	75.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	3500	MPa	
1000 hr	2800	MPa	
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	18	kJ/m ²	
23°C	18	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	2.0	kJ/m ²	
23°C	2.0	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	88.0	°C	ISO 75-2/A
Vicat Softening Temperature	106	°C	ISO 306/B50
CLTE - Flow	7.0E-5	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+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Dielectric Constant (100 Hz)	3.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	4.0E-3		
1 MHz	7.0E-3		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.569		ISO 489
Transmittance (550 nm)	> 89.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	Test Method
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	

Processing (Melt) Temp	220 to 260	°C
Mold Temperature	60.0	°C
Injection Velocity	200	mm/sec

NOTE

1. With external lubricant

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