

Luran® 378P

Styrene Acrylonitrile
Styrolution

Message:

Luran 378P is an easy flow grade of SAN with enhanced chemical resistance and mechanical strength.Luran 388S is a specialty grade of SAN with enhanced chemical resistance and the highest mechanical strength.

General Information			
UL YellowCard	E108538-100840247		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Surface Finish		
	High Clarity		
	Medium Heat Resistance		
Uses	Battery Cases		
	Housings		
	Sanitary Products		
	Toilet Seats		
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)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	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)	20.0	cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		
Ball Indentation Hardness	175	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	75.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	3500	MPa	
1000 hr	2800	MPa	
Flexural Stress	135	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	19	kJ/m ²	
23°C	19	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	101	°C	ISO 75-2/B
1.8 MPa, Annealed	89.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°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	5.0E-3		
1 MHz	8.0E-3		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.560		ISO 489
Transmittance (550 nm)	> 89.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	50.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	With external lubricant		

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