Luran® 358N

INEOS Styrolution - Styrene Acrylonitrile

Tuesday, November 5, 2019

General Information

Product Description

Luran® 358N is the general purpose easy-flow grade of SAN, suitable for mouldings with very thin walls and / or adverse flow length to wall ratio. It features very good transparency and a light intrinsic color.

FEATURES

- Excellent transparency
- Good surface appearance
- Good chemical resistance
- Good heat resistance
- Very good dimensional stability

APPLICATIONS

- Cosmetic packaging
- Water containers
- White goods
- Soap dispensers
- Cosmetic jars
- Aquarium filters

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • General Purpose • Good Dimensional Stability	• Good Flow • Good Surface Finish • High Clarity	• Medium Heat Resistance
Uses	• Containers • Cosmetic Packaging	• General Purpose • Thin-walled Parts	• White Goods & Small Appliances
Automotive Specifications	• FORD WSK-M4D913-A Color: YU Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Apparent (Bulk) Density [2]	0.65	g/cm³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	22	cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	ISO 294-4
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	537000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	10400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Tensile Creep Modulus (1 hr)	508000	psi	ISO 899-1
Tensile Creep Modulus (1000 hr)	406000	psi	ISO 899-1

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Mechanical	Nominal Value	Unit	Test Method
Flexural Stress (73°F)	17400	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	0.95	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	7.6	ft·lb/in²	
73°F	7.6	ft·lb/in²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	23900	psi	ISO 2039-1
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [3] (66 psi, Annealed)	210	°F	ISO 75-2/B
Heat Deflection Temperature [3] (264 psi, Annealed)	187	°F	ISO 75-2/A
Vicat Softening Temperature	223	°F	ISO 306/B50
CLTE - Flow	3.9E-5	in/in/°F	ISO 11359-2
Thermal Conductivity	1.2	Btu·in/hr/ft²/°F	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 [4]	1.569		ISO 489

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	428 to 500	°F
Mold Temperature	104 to 176	°F
Injection Velocity	472	in/min

Notes

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

[2] With external lubricant

[3] 4h/80°C

[4] Sodium D Line