

Luran® ECO 358N BC70

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Luran ECO 358N is the general purpose easy-flow grade of SAN, suitable for moldings with very thin walls and / or adverse flow length to wall ratio. It features very good transparency and a light intrinsic color. Luran ECO 358N BC70 is an ISCC compliant product leading to a substitution of fossil source styrene with ISCC certified bio-attributed styrene.

FEATURES

- Chemical resistance
- Heat resistance
- High surface quality
- Transparency

APPLICATIONS

- Water filters
- Mixers and blenders
- Food contact applications
- Cosmetic packaging

Property, Test Condition	Standard	Unit	Values
Sustainability Properties			
Carbon Footprint Reduction vs Fossil-Based (3rd party validated)	ISO 14044	%	93
Attributed Content of ISCC-certified Bio-Circular Sources (min.)	-	%	70
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	22
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	2
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	16
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	16
Tensile Modulus	ISO 527	MPa	3700
Tensile Stress at Yield, 23 °C	ISO 527	MPa	72
Tensile Strain at Break, 23 °C	ISO 527	%	3
Flexural Modulus, 23 °C	ISO 178	MPa	3605
Flexural Strength, 23 °C	ISO 178	MPa	120
Hardness, Ball Indentation	ISO 2039-1	MPa	165
Thermal Properties			

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Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	106
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	86
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	99
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	70
Thermal Conductivity	ISO 22007-4	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 62631-2-1	-	3
Dissipation Factor (100 Hz)	IEC 62631-2-1	10 ⁻⁴	40
Dissipation Factor (1 MHz)	IEC 62631-2-1	10 ⁻⁴	70
Volume Resistivity	IEC 62631-3-1	Ohm*m	10 ¹⁴
Surface Resistivity	IEC 62631-3-1	Ohm	>10 ¹⁵
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.569
Other Properties			
Density	ISO 1183	kg/m ³	1080
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.2
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.3 - 0.7
Melt Temperature Range	ISO 294	°C	220 - 260
Mold Temperature Range	ISO 294	°C	40 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4