

Luran® ECO 368R BC70

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Luran ECO 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. Luran ECO 368R 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	%	92
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	10
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	18
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	18
Tensile Modulus	ISO 527	MPa	3700
Tensile Stress at Yield, 23 °C	ISO 527	MPa	75
Tensile Strain at Break, 23 °C	ISO 527	%	3
Flexural Modulus, 23 °C	ISO 178	MPa	3544
Flexural Strength, 23 °C	ISO 178	MPa	125
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	100
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	100
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	70
Thermal Conductivity	ISO 22007-4	W/(m K)	0.17
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.569
Haze	ASTM D 1003	%	< 1
Light Transmission at 550 nm	ASTM D 1003	%	> 89
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