

Luran® ECO 348Q BC80

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Luran® ECO 348Q is a grade of SAN, suitable for moldings with very thin walls and / or adverse flow length to wall ratio. It features excellent transparency and a light intrinsic color. Luran ECO 348Q BC80 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

- Food contact applications
- Cosmetic packaging

Property, Test Condition	Standard	Unit	Values
Sustainability Properties			
Carbon Footprint Reduction vs Fossil-Based (3rd party validated)	ISO 14044	%	99
Attributed Content of ISCC-certified Bio-Circular Sources (min.)	-	%	80
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	19
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	1.5
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	14
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	14
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	1.5
Tensile Modulus	ISO 527	MPa	3600
Tensile Stress at Yield, 23 °C	ISO 527	MPa	70
Tensile Strain at Break, 23 °C	ISO 527	%	2.5
Flexural Modulus, 23 °C	ISO 178	MPa	3398
Flexural Strength, 23 °C	ISO 178	MPa	115
Hardness, Ball Indentation	ISO 2039-1	MPa	160
Thermal Properties			

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Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	105
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	99
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
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	200 - 250
Mold Temperature Range	ISO 294	°C	40 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4