

Luran® ECO 338L BC80

SAN

INEOS Styrolution

Luran® ECO 338L BC80 is an easy-flow grade of SAN, suitable for moldings with very thin walls and / or adverse flow length to wall ratio. It features excellent transparency, a light intrinsic color and very good color consistency. Luran® ECO 338L BC80 is an ISCC compliant product leading to a substitution of fossil source styrene with ISCC certified bio-attributed styrene.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	40	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3500	MPa	ISO 527
Stress at Break	68	MPa	ISO 527
Strain at Break	2	%	ISO 527
Impact Strength (Charpy), +23°C	14.5	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	15	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	1.7	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	1.5	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	3500	MPa	ISO 178
Flexural strength	96	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	2	kJ/m ²	ISO 180/1A
Ball Indentation Hardness	162	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	100	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	98	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	105	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	63	E-6/K	ISO 11359-1/-2
ASTM Data			
Thermal Conductivity, solid state	0.17	W/(m K)	DIN 52612-1

Other Properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1080	kg/m ³	ISO 1183
Bulk density	600	kg/m ³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.17	W/(m K)	-

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.57	-	ISO 489

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	200 - 250	°C	-
Mold temperature	40 - 80	°C	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

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Delivery form

Pellets

Certifications

Contains renewable resources, Food approval, ISCC Plus

Special Characteristics

Heat aging stabilized, Transparent

Applications

Packaging

Injection Molding

PREPROCESSING

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 200 - 250 °C

Mold temperature, range: 40 - 80 °C