

Styrolux® ECO 693D B60
 SB

INEOS Styrolution

Styrolux® ECO 693D B60 is a RSB compliant product leading to a 100% substitution of fossil source styrene with an RSBcertified bio-attributed styrene. Over its production lifecycle, Styrolux® ECO 693D B60 provides 74 % greenhouse gas savings compared to a fossil fuel equivalent.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm³/10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Yield stress	22	MPa	ISO 527
Yield strain	2.2	%	ISO 527
Nominal strain at break	260	%	ISO 527
Impact Strength (Charpy), +23°C	80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	1400	MPa	ISO 178
Flexural strength	32	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	3.5	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	2.5	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Shore Hardness D (15s)	64	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	59	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	72	°C	ISO 75-1/-2
Vicat softening temperature A	76	°C	ISO 306
Vicat softening temperature, 50°C/h 50N	48	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	75	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.07	%	Sim. to ISO 62
Density	1010	kg/m³	ISO 1183

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	2	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003

Characteristics
Processing

Film Extrusion, Thermoforming, Blown Film Extrusion

Delivery form

Pellets

Additives

Antiblocking agent

Special Characteristics

Transparent

Features

Blending Resin, Copolymer

Certifications

Contains renewable resources, Food approval, ISCC Plus

Applications

Packaging