INEOS Styrolution

ALBIS

Styrolux® ECO 693D B60

SB

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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

Features
Blending Resin, Copolymer

Delivery form
Pellets

Certifications
Contains renewable resources, Food approval, ISCC Plus

Additives
Antiblocking agent

Applications
Packaging

Special Characteristics
Transparent

Disclaimer

Liability Exclusion
These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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