

Styrolux® ECO S BC60

SB

INEOS Styrolution

Styrolux® ECO S BC60 comprises clear styrene butadiene copolymer. The grade has in general an intrinsic toughness, is easy to process and works as modifier and compatibilizer not only in polystyrene but in many other polymers, e.g. polyolefins. For Styrolux® ECO S BC60 food contact statements are available upon request. Styrolux® ECO S BC60 is a very rigid grade designed to be blended with Styrolux® ECO T in shrink film applications. It enables high performance film extrusion, increases the stiffness of the film and improves the storage stability of film reels (reduced natural shrinkage). Styrolux ECO S BC60 is an ISCC compliant product leading to a substitution of fossil source styrene with ISCC certified bio-attributed styrene.

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	11	cm ³ /10min	ISO 1133
温度	200	°C	-
载荷	5	kg	-

机械性能	数值	单位	试验方法
ISO数据			
拉伸模量	2900	MPa	ISO 527
屈服应力	45	MPa	ISO 527
屈服伸长率	2	%	ISO 527
名义断裂伸长率	2.5	%	ISO 527
无缺口简支梁冲击强度, +23°C	14	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	1	kJ/m ²	ISO 179/1eA
弯曲模量, 23°C	3000	MPa	ISO 178
弯曲强度	67	MPa	ISO 178

热性能	数值	单位	试验方法
ISO数据			
热变形温度, 1.80 MPa	59	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	62	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	64	°C	ISO 306

其它性能	数值	单位	试验方法
ISO数据			
吸水性	0.07	%	类似ISO 62
密度	1020	kg/m ³	ISO 1183

光学特性	数值	单位	试验方法
ASTM数据			
雾度	2	%	ASTM D 1003
光透射率	90	%	ASTM D 1003
折射率	1.58	-	ISO 489

加工推荐 (注塑)	数值	单位	试验方法
预干燥-温度	50	°C	-
预干燥-时间	3 - 4	h	-
注塑熔体温度	180 - 250	°C	-
模具温度	30 - 40	°C	-

加工推荐 (挤出)	数值	单位	试验方法
Type of extrusion	blown	-	-
注塑熔体温度	180	°C	-
Type of extrusion	film	-	-
注塑熔体温度	190 - 230	°C	-

特征

加工方法

注塑, 薄膜挤出成型

特征

共混树脂, 共聚物

Styrolux® ECO S BC60

SB

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供货形式

粒料

生态估价

生物相容, 食物接触声明, ISCC Plus

特殊性能

透明.

注塑

As a rule, the Styrolux® granules do not have to be pre-dried. However, in the event of unfavorable storage or transportation conditions involving severe temperature fluctuations, moisture can condense on the surface of the granules and this then has to be removed in a pre-drying step. The granules should be pre-dried in a dry-air dryer for 3 to 4 hours at a temperature of about 50°C.

PROCESSING

Melt temperature, range: 180 - 250°C

Mold temperature, range: 30 - 40°C

薄膜挤出成型

PROCESSING

Blown film, Melt temperature: 180°C

Flat film, Melt temperature: 190 - 230°C