

## Styrolution Styrolux® 693 D SBC

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

### Material Notes:

Description: Styrolux® 693 D is a clear styrene-butadiene copolymer (SBC) with a well balanced combination of toughness and clarity. Styrolux® 693 D is mainly used for thermoformed articles, especially in blends with general-purpose polystyrene. Styrolux® 693 D contains a microcrystalline wax which acts as an antiblock providing processing benefits but decreases the printability. Major applications include: food and non-food packagings, thermoformed transparent containers and cups for cold beverages, thermoformed lids, toys and boxes. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-Styrolux-693-D-SBC.php](http://www.lookpolymers.com/polymer_Styrolution-Styrolux-693-D-SBC.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.070 %	<= 0.070 %	ISO 62
Moisture Absorption at Equilibrium	<= 0.070 %	<= 0.070 %	23°C/50% RH; ISO 62
Melt Flow	12.63 g/10 min	12.63 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 868
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527-1/-2
Elongation at Break	260 %	260 %	Nominal; ISO 527-1/-2
Elongation at Yield	2.2 %	2.2 %	ISO 527-1/-2
Tensile Modulus	1.30 GPa	189 ksi	ISO 527-1/-2
Flexural Strength	32.0 MPa	4640 psi	ISO 178
Flexural Modulus	1.40 GPa	203 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	2.80 kJ/m <sup>2</sup> @Temperature -30.0 °C	1.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/A
	3.50 kJ/m <sup>2</sup> @Temperature 23.0 °C	1.67 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	<= NB	<= NB	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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Deflection Temperature at 0.46 MPa (66 psi)	72.0 Å°C	162 Å°F	ISO 75-1/-2
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Deflection Temperature at 1.8 MPa (264 psi)	59.0 Å°C	138 Å°F	ISO 75-1/-2
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Vicat Softening Point	48.0 Å°C	118 Å°F	VST/B/50; ISO 306
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	76.0 Å°C	169 Å°F	VST/A/50; ISO 306
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Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

	HB	HB	IEC 60695-11-10
	@Thickness 3.18 mm	@Thickness 0.125 in	

Optical Properties	Metric	English	Comments
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Haze	2.0 %	2.0 %	DIN 5036-3
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Transmission, Visible	90 %	90 %	transparent; thickness not quantified
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
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Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
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Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

	2.5	2.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Dielectric Strength	88.0 kV/mm	2240 kV/in	K20/P50; IEC 60243-1
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Processing Properties	Metric	English	Comments
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Melt Temperature	190 - 230 Å°C	374 - 446 Å°F	Flat film extrusion
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	180 - 250 Å°C	356 - 482 Å°F	Injection molding
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Mold Temperature	20.0 - 40.0 Å°C	68.0 - 104 Å°F	Injection Molding
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Descriptive Properties	Value	Comments
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Descriptive Properties	Value   <b>Clear</b>	Comments
Commercial Status	Europe	
Primary Processing Technique	Injection Molding, Extrusion, and Blow Molding	
Transparency	0.89	d=2mm, DIN 5036-3

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