

Styrolution Styrolux[®] 656 C SBC

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

Material Notes:

Description: Styrolux[®] 656 C is a clear styrene-butadiene copolymer (SBC) with enhanced flow properties. It is used almost exclusively for injection molding of rigid, tough parts requiring highest levels of clarity and surface gloss. Styrolux[®] 656 C is sterilizable by gamma-rays and offers good hinge properties. Major applications include: molded containers and bottles, toys, displays, appliance housings, overcaps and hanger. 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-656-C-SBC.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	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	16.32 g/10 min @Load 5.00 kg, Temperature 200 [°] C	16.32 g/10 min @Load 11.0 lb, Temperature 392 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ISO 868
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527-1/-2
Elongation at Break	20 %	20 %	Nominal; ISO 527-1/-2
Elongation at Yield	2.4 %	2.4 %	ISO 527-1/-2
Tensile Modulus	1.80 GPa	261 ksi	ISO 527-1/-2
Flexural Strength	48.0 MPa	6960 psi	ISO 178
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -30.0 [°] C	1.43 ft-lb/in ² @Temperature -22.0 [°] F	ISO 180/A
	3.50 kJ/m ² @Temperature 23.0 [°] C	1.67 ft-lb/in ² @Temperature 73.4 [°] F	ISO 180/A
Charpy Impact Unnotched	<= 2.50 J/cm ²	<= 11.9 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.200 J/cm ²	0.002 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.0 Å°C	171 Å°F	ISO 75-1/-2
Vicat Softening Point	63.0 Å°C	145 Å°F	VST/B/50; ISO 306
	85.0 Å°C	185 Å°F	VST/A/50; ISO 306
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
Haze	1.5 %	1.5 %	DIN 5036-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
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	140 kV/mm	3560 kV/in	K20/P50; IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 250 Å°C	356 - 482 Å°F	Injection molding
Mold Temperature	30.0 - 50.0 Å°C	86.0 - 122 Å°F	Injection Molding

Descriptive Properties	Value	Comments
Color	Crystal Clear	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

Descriptive Properties	Value	Comments
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