

Styrolution Styrolux® 3G46 SBC

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

Material Notes:

Description: Styrolux® 3G 46 is a clear styrene-butadiene copolymer (SBC) developed specifically for sheet- and film extrusion and for thermoformed articles. Styrolux® 3G 46 is designed for improved performance in blends with general-purpose polystyrene, providing parts with an excellent balance of transparency and toughness. Suggested applications: Include the whole array of food and non-food packaging like blister packs, drink cups, caps and lids, deli-trays and sheeting. 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-3G46-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 %	
Linear Mold Shrinkage, Flow	0.01651 cm/cm	0.01651 in/in	ASTM D955
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Yield	25.5 MPa	3700 psi	2in/min; ASTM D638
Elongation at Break	220 %	220 %	ASTM D638
Tensile Modulus	1.64 GPa	238 ksi	2in/min; ASTM D638
Flexural Strength	27.2 MPa	3950 psi	ASTM D790
Flexural Modulus	1.33 GPa	193 ksi	ASTM D790
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	ISO 180
Dart Drop, Total Energy	20.0 J	14.8 ft-lb	Total; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Å°C	169 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Å°C	140 Å°F	ASTM D648
	88.0 Å°C	190 Å°F	

Thermal Properties	Metric	English	Comments
	@Load 1.02 kg, Temperature 120 Å°C	@Load 2.25 lb, Temperature 248 Å°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.572	1.572	ASTM D542
Haze	0.20 %	0.20 %	ASTM D1003
Transmission, Visible	91 %	91 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Constant	2.5 @Thickness 1.00 mm, Frequency 1.00e+6 Hz	2.5 @Thickness 0.0394 in, Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 Å°C	374 - 446 Å°F	Extrusion
	180 - 250 Å°C	356 - 482 Å°F	Injection
Mold Temperature	30.0 - 50.0 Å°C	86.0 - 122 Å°F	

Descriptive Properties	Value	Comments
Commercial Status	North America	

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