

K-Resin® SBC XK44

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC XK44 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding or thermoforming.

Important attributes of K-Resin® SBC XK44 are:

- Clarity
- Copolymer
- Food Contact Acceptable
- Good Stiffness
- Good Toughness

Typical applications include:

- Food Contact Applications
- Medical/Healthcare
- Packaging
- Trays/Racks

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Gloss		
Uses	Blow Molding Applications		
	Medical/Healthcare Applications		
	Packaging		
	Support Trays		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 176.170(c)		
	FDA 21 CFR 177.1640		
	USP Class VI		
Processing Method	Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	21.6	MPa	ASTM D638
Tensile Elongation ² (Break)	350	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1120	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	34.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm, Total Energy)	47.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	52.8	°C	ASTM D648
Vicat Softening Temperature	75.6	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	93.0	%	ASTM D1003
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	13 mm/min		
4.	13 mm/min		
5.	3.81 m/sec		

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