

K-Resin® SBC BK10

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC BK10 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of K-Resin® SBC BK10 are:

- Clarity
- Food Contact Acceptable
- Good Stiffness
- Good Toughness
- High Gloss

Typical applications include:

- Medical/Healthcare
- Bottles
- Caps/Lids/Closures
- Consumer Goods
- Containers

General Information			
Features	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Gloss		
Uses	Bottles		
	Caps		
	Containers		
	Medical/Healthcare Applications		
	Toys		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1640		
	USP Class VI		
Appearance	Clear/Transparent		
	Opaque		
Forms	Pellets		
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)	15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.3	MPa	ASTM D638
Tensile Elongation ² (Break)	250	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1670	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	35.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	No Break		ASTM D256
Instrumented Dart Impact ⁵ (3.18 mm)	41.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Vicat Softening Temperature	82.2	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

