

K-Resin® SBC XK41

Styrene Butadiene Block Copolymer

Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC XK41 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of K-Resin® SBC XK41 are:

Clarity

Fast Molding Cycle

Food Contact Acceptable

Good Stiffness

Good Toughness

Typical applications include:

Additive/Masterbatch

Caps/Lids/Closures

Food Contact Applications

Kitchenware

Packaging

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Clarity		
Uses	Blending		
	Cups		
	Lids		
	Packaging		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1640		
Processing Method	Extrusion		
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)	7.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	21.4	MPa	ASTM D638
Tensile Elongation ² (Break)	240	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1450	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)	41.6	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
Vicat Softening Temperature	71.1	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	218	°C	
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

