

K-Resin® SBC KK38

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC KK38 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for thermoforming.

Important attributes of K-Resin® SBC KK38 are:

- Flame Rated
- Clarity
- Copolymer
- Food Contact Acceptable
- Good Stiffness

Typical applications include:

- Caps/Lids/Closures
- Food Contact Applications
- Kitchenware
- Medical/Healthcare
- Packaging

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Gloss		
	Low Temperature Impact Resistance		
Uses	Cups		
	Drink Lids		
	Packaging		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 176.170(c)		
	USP Class VI		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	16.2	MPa	ASTM D638

Tensile Elongation ² (Break)	260	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1370	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	24.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm, Total Energy)	38.4	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	56.7	°C	ASTM D648
Vicat Softening Temperature	74.4	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	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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