

K-Resin® SBC KR05

Styrene Butadiene Block Copolymer

Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC KR05 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, film extrusion, injection blow molding, sheet extrusion, or thermoforming.

Important attributes of K-Resin® SBC KR05 are:

- Flame Rated
- Clarity
- Copolymer
- Food Contact Acceptable
- Good Stiffness
- Typical applications include:
 - Bottles
 - Caps/Lids/Closures
 - Containers
 - Film
 - Food Contact Applications

General Information	
UL YellowCard	E54700-244903
Features	Copolymer
	Food Contact Acceptable
	Good Stiffness
	Good Toughness
	High Clarity
	High Gloss
Uses	Bottles
	Containers
	Cups
	Drink Lids
	Film
	Sheet
	Shrink Wrap
Agency Ratings	EU 10/2011
	FDA 21 CFR 177.1640
	USP Class VI
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Blow Molding
	Film Extrusion

Injection Blow Molding

Sheet Extrusion

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)	7.5	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.090	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.2	MPa	ASTM D638
Tensile Elongation ² (Break)	230	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1800	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm)	37.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm)	40.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.2	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°)	162		ASTM D523
Transmittance	92.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220	°C	
Mold Temperature	30.0	°C	
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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