

K-Resin® SBC KR03

Styrene Butadiene Block Copolymer
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC KR03 is a Styrene Butadiene Block Copolymer (SBC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for compounding, extrusion, injection molding, profile extrusion, sheet extrusion, or thermoforming.

Important attributes of K-Resin® SBC KR03 are:

- Flame Rated
- Sterilizable
- Clarity
- Copolymer
- Food Contact Acceptable

Typical applications include:

- Containers
- Food Contact Applications
- Medical/Healthcare
- Packaging
- Additive/Masterbatch

General Information	
Features	Copolymer
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Stiffness
	Good Toughness
	High Clarity
	High Gloss
	Radiation Sterilizable
Uses	Compounding
	Containers
	Cups
	Drink Lids
	Food Containers
	Food Packaging
	Household Goods
	Housings
	Medical/Healthcare Applications
	Packaging
	Toys
Agency Ratings	EU 10/2011
	FDA 21 CFR 176.170(c)
	FDA 21 CFR 177.1640

USP Class VI

Appearance	Clear/Transparent		
	Colors Available		
	Opaque		
Processing Method	Compounding		
	Extrusion		
	Injection Molding		
	Profile Extrusion		
	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, 3.18 mm)	230	%	ASTM D638
Flexural Modulus ³ (3.18 mm)	1800	MPa	ASTM D790
Flexural Strength ⁴ (3.18 mm)	37.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact ⁵ (23°C, 3.18 mm, Total Energy)	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	
Drying Temperature	60.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	177 to 232	°C	
Mold Temperature	10.0 to 48.9	°C	
Back Pressure	0.345 to 1.03	MPa	
Clamp Tonnage	2.8 to 8.3	kN/cm ²	

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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