

# K-Resin® SBC XK40

Styrene Butadiene Block Copolymer  
Chevron Phillips Chemical Company LLC

Message:

K-Resin® SBC XK40 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 XK40 are:

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

Typical applications include:

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

| General Information                             |                         |                   |             |
|-------------------------------------------------|-------------------------|-------------------|-------------|
| Features                                        | Food Contact Acceptable |                   |             |
|                                                 | Good Toughness          |                   |             |
|                                                 | High Clarity            |                   |             |
|                                                 | High Gloss              |                   |             |
| Uses                                            | Cups                    |                   |             |
|                                                 | Drink Lids              |                   |             |
|                                                 | Food Packaging          |                   |             |
| Agency Ratings                                  | EU 10/2011              |                   |             |
|                                                 | FDA 21 CFR 177.1640     |                   |             |
| Appearance                                      | Clear/Transparent       |                   |             |
| Forms                                           | Pellets                 |                   |             |
| Processing Method                               | Extrusion               |                   |             |
| Physical                                        | Nominal Value           | Unit              | Test Method |
| Specific Gravity                                | 1.02                    | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)        | 10                      | 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 <sup>1</sup> (Yield)           | 15.4                    | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)         | 340                     | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.18 mm)         | 847                     | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (Yield, 3.18 mm) | 24.4                    | MPa               | ASTM D790   |
| Impact                                          | Nominal Value           | Unit              | Test Method |

| Instrumented Dart Impact <sup>5</sup> (23°C, 3.18 mm, Total Energy) | 42.9              | J    | ASTM D3763  |
|---------------------------------------------------------------------|-------------------|------|-------------|
| Thermal                                                             | Nominal Value     | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)             | 47.2              | °C   | ASTM D648   |
| Vicat Softening Temperature                                         | 62.8              | °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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