

## Chevron Phillips K-Resin® KK38 Styrene-Butadiene Copolymer, Sheet Grade

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

### Material Notes:

**Styrene-Butadiene Copolymer Customer Benefits:** KK38 is an improved extrusion grade SBC designed specifically for superior performance in blends with general purpose polystyrene. It is easily processed by extrusion and gives thermoformed parts with excellent detail on fast production cycles. Thermoformed parts have greater polystyrene acceptance with equivalent processability, very good clarity, excellent toughness, and good stiffness. **Applications:** Major applications include thermoformed blister packs, cups and lids, and portion packages. **Processing Recommendations:** Melt Temperature: 216°C maximum. High shear and restrictive type screws tend to degrade the melt. Generally no need to dry resin. **Specification Data:** When combined with at least 17% food grade polystyrene to produce articles for food contact, KK38 complies with FDA Regulation 21 CFR 177.1640. EEC Directive 90/128/EEC and all its amendments. USP Class VI-50. UL94HB. Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-K-Resin-KK38-Styrene-Butadiene-Copolymer-Sheet-Grade.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KK38-Styrene-Butadiene-Copolymer-Sheet-Grade.php)

| Physical Properties | Metric   | English  | Comments   |
|---------------------|--|--|------------|
| Density             | 1.00 g/cc  | 0.0361 lb/in <sup>3</sup>                            | ASTM D792  |
| Melt Flow           | 9.0 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 9.0 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM D1238 |

| Mechanical Properties   | Metric                       | English                           | Comments  |
|-------------------------|------------------------------|-----------------------------------|---|
| Hardness, Shore D       | 58                           | 58                                | ASTM D2240  |
| Tensile Strength, Yield | 13.1 MPa                     | 1900 psi                          | Type 1 @ 2 in/min; ASTM D638                                    |
| Elongation at Break     | 180 %                        | 180 %                             | Type 1 @ 2 in/min; ASTM D638                                    |
| Flexural Yield Strength | 18.6 MPa                     | 2700 psi                          | ASTM D790   |
| Flexural Modulus        | 1.055 GPa                    | 153.0 ksi                         | ASTM D790   |
| Izod Impact, Notched    | NB<br>@Thickness 3.17 mm     | NB<br>@Thickness 0.125 in         | ASTM D256   |
| Impact Test             | 28.4 J<br>@Thickness 3.17 mm | 20.9 ft-lb<br>@Thickness 0.125 in | Instrumented Total Energy; @ 150 in/sec impact rate; ASTM D3763 |

| Thermal Properties                          | Metric  | English | Comments   |
|---|---------|---------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 62.0 °C | 144 °F  | ASTM D648  |
| Vicat Softening Point                       | 76.0 °C | 169 °F  | ASTM D1525 |

| Thermal Properties     | Metric    | English   | Comments   |
|------------------------|-----------|-----------|------------|
| Optical Properties     | Metric    | English   | Comments   |
| Transmission, Visible  | 89 %      | 89 %      | ASTM D1003 |
| Processing Properties  | Metric    | English   | Comments   |
| Processing Temperature | <= 216 °C | <= 421 °F |            |

## Contact Songhan Plastic Technology Co.,Ltd.

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