

Chevron Phillips K-Resin® KR52 Styrene-Butadiene Copolymer

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

Material Notes:

Customer Benefits:Excellent Optical PropertiesGood StiffnessExcellent PrintabilityUp to 80% Shrinkage at 100°CBlends well with Polystyrene Typical Applications:Shrink Sleeve LabelsMulti-layer FilmsTamper Evident BandsRoll-Fed LabelsDecorated FilmsInformation provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KR52-Styrene-Butadiene-Copolymer.php

| Physical Properties | Metric | English | Comments |
|--------------------------|--|--|-------------|
| Specific Gravity | 1.01 g/cc | 1.01 g/cc | ASTM D792 |
| Water Vapor Transmission | 2.00 g/m ² /day | 0.129 g/100 in ² /day | ASTM F1249 |
| Oxygen Transmission Rate | 85.0 cc/m ² /day | 5.47 cc/100 in ² /day | ASTM D3985 |
| Thickness | 50.8 microns | 2.00 mil | For Testing |
| Melt Flow | 9.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 9.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|------------|-------------------|
| Film Tensile Strength at Yield, MD | 30.0 MPa | 4350 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 45.0 MPa | 6530 psi | ASTM D882 |
| Film Elongation at Yield, MD | 260 % | 260 % | ASTM D882 |
| Film Elongation at Yield, TD | 80 % | 80 % | ASTM D882 |
| Puncture Energy | 3.00 J | 2.21 ft-lb | ASTM D3763 |
| Coefficient of Friction, Dynamic | 0.25 | 0.25 | ASTM D1894 |
| Elmendorf Tear Strength MD | 95 g | 95 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 75 g | 75 g | ASTM D1922 |
| Elmendorf Tear Strength, MD | 1.87 g/micron | 47.5 g/mil | 2 mil; ASTM D1922 |
| Elmendorf Tear Strength, TD | 1.48 g/micron | 37.5 g/mil | 2 mil; ASTM D1922 |
| Film Tensile Strength at Break, MD | 20.0 MPa | 2900 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 90.0 MPa | 13100 psi | ASTM D882 |
| 1% Secant Modulus, MD | 1100 MPa | 160000 psi | ASTM D882 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|------------|-----------|
| 1% Secant Modulus, TD | 1600 MPa | 232000 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 60.0 °C | 140 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Haze | 4.0 % | 4.0 % | ASTM D1003 |
| Gloss | 145 % | 145 % | ASTM D523 |

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