

For more information and technical assistance contact:

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# DK11

K-Resin® Styrene-Butadiene Copolymers (SBC)

## Customer Benefits

- Excellent Clarity
- High Surface Gloss
- Good Heat Sealability
- Good Toughness and Stiffness

## Typical Applications

- Medical Packaging
- Produce Packaging
- Twist Wrap
- Lidstock and Labeling Film

Nominal Physical Properties <sup>(1)</sup>	English	SI	Method
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Melt Flow Rate, 200° C/5 kg	7.5 g/10 min	7.5 g/10 min	ASTM 1238
Vicat Softening Point <sup>(2)</sup>	185°F	85°C	ASTM D1525
Haze <sup>(3)</sup>	0.7%	0.7%	ASTM D1003
Gloss	140%	140%	ASTM D523
Dart Drop, 26 in (66 mm)	590 g	590 g	ASTM D1709
Puncture	8 in-lb	0.9 J	ASTM D3763
Oxygen Gas Transmission Rate	420 cc mil/100in <sup>2</sup> 24 hr	170 cc mm/m <sup>2</sup> 24 hr	ASTM D3985
Moisture Vapor Transmission Rate	5.5 g mil/100in <sup>2</sup> 24 hr	2 g mm/m <sup>2</sup> 24 hr	ASTM F1249

Nominal Physical Properties <sup>(1)</sup>	Machine	Transverse	Method
Elmendorf Tear MD	7 g	7 g	ASTM D1922
Elmendorf Tear TD	15 g	15 g	ASTM D1922
Tensile Yield Strength MD	5,000 psi	35 MPa	ASTM D882
Tensile Yield Strength TD	3,050 psi	20 MPa	ASTM D882
Elongation MD	110 %	110 %	ASTM D882
Elongation TD	200 %	200 %	ASTM D882
Secant Modulus, 1% MD	205,000 psi	1,400 MPa	ASTM D882
Secant Modulus, 1% TD	140,000 psi	970 MPa	ASTM D882

(1) Typical blown film properties with 3% SKR17 slip/antiblock, 1 mil (0.025 mm) film (2.5:1 BUR) 35 mil (0.90 mm) die gap. The nominal properties herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

(2) Injection Molded Specimen.

(3) Haze was measured using blown film containing only 1% SKR19 stabilizer, 1 mil (0.025 mm) film (2.5:1 BUR) 35 mil (0.90 mm) die gap.

## MEETS THESE IMPORTANT SPECIFICATIONS

- K-Resin® SBC grade DK11, as shipped by Chevron Phillips Chemical Company LP, meets the specifications of the United States FDA Food Packaging Regulation 21 CFR 177.1640 (polystyrene and rubber modified polystyrene). There are no regulatory food type or temperature restrictions on this resin.
- K-Resin® SBC grade DK11 is produced in an ISO 9001:2008 certified plant.
- Commission Regulation (EU) No. 10/2011 and all its amendments.
- USP Class VI
- ISO 10993

MSDS 100000000051

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Another quality product from



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