K-Resin® SBC DK11

Styrene Butadiene Block Copolymer

Chevron Phillips Chemical Company LLC

Message:

K-Resin®SBC DK11 is a styrene-butadiene copolymer (SBC) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is: blown film or cast film.
K-Resin®The main features of SBC DK11 are:
high gloss
accessible food
Good stiffness
Good sealing performance
Good toughness
Typical application areas include:
medical/health care
Wrapping
packing
Movie
food contact applications

General Information	
Features	Rigid, good
	Highlight
	Good heat sealability
	Definition, high
	Good toughness
	Compliance of Food Exposure
Uses	Films
	Food packaging
	Shrinkable film
	Medical packaging
Agency Ratings	FDA 21 CFR 177.1640
	USP Class VI
	Europe 10/1/2011 12:00:00 AM
Appearance	Clear/transparent
Forms	Particle
Processing Method	Blow film
	cast film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.5	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	1410	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	965	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	34.5	MPa	ASTM D882
TD: Yield, 25 µm, blown film	21.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	110	%	ASTM D882
TD: Broken, 25 µm, blown film	200	%	ASTM D882
Dart Drop Impact [1] (25 µm, Blown Film)	590	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	7.0	g	ASTM D1922
TD: 25 µm, blown film	15	g	ASTM D1922
Oxygen Permeability (25 µm, Blown Film)	170	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate (25 µm, Blown Film)	2.2	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249
Impact	**Nominal Value**	**Unit**	**Test Method**
Instrumented Dart Impact (0.0254 mm, Blown Film)	0.904	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature [2]	85.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gardner Gloss (25.4 µm, Blown Film)	140		ASTM D523
Haze [3] (Blown Film)	0.70	%	ASTM D1003
Additional Information			
Typical blown film properties with 3% SKR17 slip/antiblock, I mil (0.025 mm) film (2.5:1 BUR) 35 mil (0.90 mm) die gap.			
NOTE			
1.	26 in		
2.	Injection Molded		
3.	Haze was measured using blown film containing only 1% SKR19 stabilizer, I mil (0.025 mm) film (2.5:1 BUR) 35 mil (0.90 mm) die gap.		

Recommended distributors for this material

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