

SKYPET[®] BR-V

SKY PET

Product description

SKYPET, a PET resin first developed in Korea in 1978 by SK Chemicals, now benefits from 30 years of accumulated expertise. SKYPET'S safety, reliability, and high earned the approval of the FDA and multiple global companies as a crucial basic raw material.

SKYPET BR is a new grade of highly functional low crystal-type copolyester resin, with a wide range of applications in injection/stretch blow molding and sheet processing. It features excellent transparency and stretch ability.

Applications

- 5-gallon mineral water bottles
- Containers for cosmetics :
- Sheet (outer packing and wrapping materials) :
excellent thermoforming,
enabling deep draw
- Thickness of thermoforming :
5 or 6mm
- Returnable bottles

Key Attributes

- Not easily crystallized compared to SKYPET BB and SKYPET BL
- More easily applicable when forming thick materials compared to SKYPET BB and SKYPET BL
- Transparency is ensured
- Requires lower temperature for formation than SKPET BB and SKYPET BL
- Minimal occurrence of byproducts, such acetaldehyde

Notes

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

Typical properties for

SKYPET[®] BR-V

ASTM Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.33
Mold Shrinkage	ASTM D955	%	0.3 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	116
Tensile Strength @ Yield	ASTM D638	Kgf/cm ²	520
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	220
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	250
Flexural Strength	ASTM D790	Kgf/cm ²	770
Flexural Modulus	ASTM D790	Kgf/cm ²	22,600
Izod Impact Strength Notched @ 23 °C	ASTM D256	J/m	51
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648	°C	69 /-
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	89

Headquarter / R&D center

310 Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea [13494]
TEL : +82-2-2008-2008
FAX : +82-2-2008-2009

Ulsan Plant

718, Cheoyong-ro, Nam-gu, Ulsan, Republic
of Korea [44784]
TEL : +82-52-256-0121
FAX : +82-52-256-0652

Ver.1.0,'18.07.12

The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.

Typical properties for

SKYPET[®] BR-V

ISO Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.33
Mold Shrinkage	ASTM D955	%	0.3 ~ 0.5
Rockwell Hardness	ASTM D785	R-scale	116
Tensile Strength @ Yield	ISO 527	MPa	54
Tensile Strength @ Break	ISO 527	MPa	22
Elongation @ Yield	ISO 527	%	4.0
Elongation @ Break	ISO 527	%	42
Flexural Strength	ISO 178	MPa	72
Flexural Modulus	ISO 178	MPa	2,100
Izod Impact Strength Notched @ 23°C	ISO 180	KJ/m ²	5.0
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75	°C	70 / 62
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	89

Headquarter / R&D center

310 Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea [13494]
TEL : +82-2-2008-2008
FAX : +82-2-2008-2009

Ulsan Plant

718, Cheoyong-ro, Nam-gu, Ulsan, Republic
of Korea [44784]
TEL : +82-52-256-0121
FAX : +82-52-256-0652

Ver.1.0,'18.07.12

The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.