

# SKYPET® BR-V

**SKY PET**

## Product description

SKYPET® BR is a semi-crystalline Copolyester grade with excellent transparency, chemical resistance, and processability. Due to its slower crystallization rate compared to a regular PET, BR is suited for making thicker products for variety of applications through injection, stretch blow molding, and sheet extrusion processing. SKYPET® BR does not contain Bisphenol derivatives (BPA, etc.) and Phthalate-based plasticizer components regulated by the EU RoHS regulations. It also meets the requirements for food contact materials in Korea, the US, Europe, China, and Japan. For further details, please refer to SK Chemicals' technical documents.

## 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 SKYPET BB and SKYPET BL
- Minimal occurrence of byproducts, such as acetaldehyde



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/cm2	520
Tensile Strength @ Break	ASTM D638	Kgf/cm2	220
Elongation @ Yield	ASTM D638	%	4.5
Elongation @ Break	ASTM D638	%	250
Flexural Strength	ASTM D790	Kgf/cm2	770
Flexural Modulus	ASTM D790	Kgf/cm2	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



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/m2	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

