

## SKYPET® BR-V

### PET

SK Chemicals

SKYPET® BR is a semi-crystalline Copolyester grade with excellent transparency, chemical resistance, and processability. Due to its slower crystallization rate compared to aregular PET, BR is suited for making thicker products for variety of applications through injection, stretch blow molding, and sheet extrusion processing.

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.004 | mm/mm | ASTM D 955    |
| Density, 73 °F                      | 1330  | kg/m³ | ASTM D 792    |

| Mechanical Properties                 | Value | Unit  | Test Standard |
|---------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                       |       |       |               |
| Yield stress                          | 54    | MPa   | ISO 527       |
| Yield strain                          | 4     | %     | ISO 527       |
| Stress at Break                       | 22    | MPa   | ISO 527       |
| Strain at Break                       | 42    | %     | ISO 527       |
| Flexural Modulus (23 °C)              | 2100  | MPa   | ISO 178       |
| Flexural strength                     | 72    | MPa   | ISO 178       |
| Notched Impact Strength (Izod), 23 °C | 5     | kJ/m² | ISO 180/1A    |

|                                        |       |     |            |
|----------------------------------------|-------|-----|------------|
| <b>ASTM Data</b>                       |       |     |            |
| Tensile Strength at Yield              | 51    | MPa | ASTM D 638 |
| Tensile Strength at Break              | 21.6  | MPa | ASTM D 638 |
| Elongation at Yield                    | 4.5   | %   | ASTM D 638 |
| Elongation at Break                    | 250   | %   | ASTM D 638 |
| Flexural Modulus                       | 2217  | MPa | ASTM D 790 |
| Flexural Strength                      | 75.5  | MPa | ASTM D 790 |
| Rockwell Hardness                      | R 116 | -   | ASTM D 785 |
| Notched Impact Strength (Izod), 1/8 in | 51    | J/m | ASTM D 256 |

| Thermal Properties                        | Value | Unit | Test Standard |
|-------------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                           |       |      |               |
| Temp. of deflection under load (1.80 MPa) | 62    | °C   | ISO 75-1/-2   |
| Temp. of deflection under load (0.45 MPa) | 70    | °C   | ISO 75-1/-2   |
| <b>ASTM Data</b>                          |       |      |               |
| DTUL @ 66 psi                             | 69    | °C   | ASTM D 648    |

| Optical Properties  | Value | Unit | Test Standard |
|---------------------|-------|------|---------------|
| <b>ASTM Data</b>    |       |      |               |
| Haze                | 1     | %    | ASTM D 1003   |
| Light Transmittance | 89    | %    | ASTM D 1003   |

## Characteristics

### Processing

Injection Molding, Film Extrusion, Sheet Extrusion, Blow Molding, Thermoforming

### Special Characteristics

Transparent

### Features

Copolymer

### Chemical Resistance

General Chemical Resistance

### Certifications

Food approval

### Applications

Packaging

## Disclaimer

### Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR**

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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