

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
ASTM Data			
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
ISO Data			
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

ASTM Data

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
ISO Data			
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

ASTM Data

DTUL @ 66 psi	69	°C	ASTM D 648
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Optical Properties

	Value	Unit	Test Standard
ASTM Data			
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