

SKYPET® BR

PET

SK Chemicals

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

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Yield stress	55	MPa	ISO 527
Yield strain	4.1	%	ISO 527
Stress at Break	26	MPa	ISO 527
Strain at Break	240	%	ISO 527
Flexural Modulus (23 °C)	2100	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	5.4	kJ/m²	ISO 180/1A
Rockwell Hardness	R 116	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	51	MPa	ASTM D 638
Tensile Strength at Break	33.4	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	340	%	ASTM D 638
Flexural Modulus	2234	MPa	ASTM D 790
Flexural Strength	76.5	MPa	ASTM D 790
Rockwell Hardness	R 116	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	66	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	63	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	72	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	69	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1330	kg/m³	ISO 1183

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

Chemical Resistance

General Chemical Resistance

Certifications

Medical, US Pharmacopeia Class VI Approved, Food approval

Applications

Medical, 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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Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- 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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