

ECOZEN® T95

Copolyester

SK Chemicals

ECOZEN, conceived and developed by SK Chemicals is a bio-based, heat-resistant, and transparent bio-copolyester.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73 °F	1250	kg/m ³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Yield stress	45	MPa	ISO 527
Yield strain	5.3	%	ISO 527
Stress at Break	52.9	MPa	ISO 527
Strain at Break	219	%	ISO 527
Flexural Modulus (23 °C)	1830	MPa	ISO 178
Flexural strength	68.4	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	93	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Strength at Yield	46.1	MPa	ASTM D 638
Tensile Strength at Break	48	MPa	ASTM D 638
Elongation at Yield	5.7	%	ASTM D 638
Elongation at Break	250	%	ASTM D 638
Flexural Modulus	1962	MPa	ASTM D 790
Flexural Strength	75.5	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Notched Impact Strength (Izod), 1/8 in	860	J/m	ASTM D 256

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	71	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	84	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	83	°C	ASTM D 648
DTUL @ 264 psi	73	°C	ASTM D 648

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003

Characteristics

Processing

Film Extrusion, Sheet Extrusion, Blow Molding

Special Characteristics

Heat aging stabilized, Transparent

Features

Copolymer

Chemical Resistance

General Chemical Resistance

Certifications

Contains renewable resources, 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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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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