

ECOZEN® T100H

Copolyester

SK Chemicals

ECOZEN® is a glycol-modified polyethylene terephthalate (PETG) with exceptional transparency and chemical resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Density, 73 °F	1250	kg/m³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Yield stress	46.5	MPa	ISO 527
Yield strain	5.8	%	ISO 527
Stress at Break	52.1	MPa	ISO 527
Strain at Break	202	%	ISO 527
Flexural Modulus (23 °C)	1800	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	93	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Strength at Yield	47.1	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	250	%	ASTM D 638
Flexural Modulus	1893	MPa	ASTM D 790
Flexural Strength	74.6	MPa	ASTM D 790
Rockwell Hardness	R 112	-	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 (0.45 MPa)	90	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	77	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	88	°C	ASTM D 648
DTUL @ 264 psi	77	°C	ASTM D 648

Other Properties	Value	Unit	Test Standard
ISO Data			
Biobased carbon content	10	%	-

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	88	%	ASTM D 1003

Characteristics

Special Characteristics

Heat aging stabilized, Transparent

Certifications

Contains renewable resources, Food approval

Chemical Resistance

General Chemical Resistance

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**

APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.

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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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