

ECOZEN[®] T90H

**ECOZEN**

Product description

ECOZEN, conceived and developed by SK Chemicals is a bio-based, heat-resistant, and transparent bio-copolyester. Available in 5 distinct product lines, each containing all the advantages of conventional PETG resins, like high transparency, easy-processing, and chemical resistance. ECOZEN also has increased heat resistance, while using eco-friendly materials.

Applications

- Cosmetic
- Home appliance
- Sheet & others

Key Attributes

- High Melt Strength
- High HDT

Notes

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

Typical properties for

ECOZEN[®] T90H

ASTM Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.23
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R - scale	105
Tensile Strength @ Yield	ASTM D638	Kgf/cm ²	430
Tensile Strength @ Break	ASTM D638	Kgf/cm ²	450
Elongation @ Yield	ASTM D638	%	5.3
Elongation @ Break	ASTM D638	%	320
Flexural Strength	ASTM D790	Kgf/cm ²	690
Flexural Modulus	ASTM D790	Kgf/cm ²	18,000
Izod Impact Strength Notched @ 23	ASTM D256	J/m	860
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648		76 / 66
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90

Headquarter / R&D center

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Typical properties for

ECOZEN[®] T90H

ISO Method

Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.23
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R - scale	115
Tensile Strength @ Yield	ISO 527	MPa	43
Tensile Strength @ Break	ISO 527	MPa	52
Elongation @ Yield	ISO 527	%	4.5
Elongation @ Break	ISO 527	%	240
Flexural Strength	ISO 178	MPa	62
Flexural Modulus	ISO 178	MPa	1,700
Izod Impact Strength Notched @ 23	ISO 180	KJ/m ²	93
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75		78 / 66
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90

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