

## Technical Data Sheet

# ECOZEN<sup>®</sup> T120G



**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 flowability
- 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<sup>®</sup> T120G

## ASTM Method

## Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R - scale	121
Tensile Strength @ Yield	ASTM D638	Kgf/cm <sup>2</sup>	540
Tensile Strength @ Break	ASTM D638	Kgf/cm <sup>2</sup>	555
Elongation @ Yield	ASTM D638	%	7.1
Elongation @ Break	ASTM D638	%	155
Flexural Strength	ASTM D790	Kgf/cm <sup>2</sup>	870
Flexural Modulus	ASTM D790	Kgf/cm <sup>2</sup>	19,500
Izod Impact Strength Notched @ 23	ASTM D256	J/m	860
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ASTM D648		109 / 92
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	81

### Headquarter / R&D center

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Typical properties for

# ECOZEN<sup>®</sup> T120G

## ISO Method

## Product Information

Property	Test Method	Unit	Result
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage	ASTM D955	%	0.2 ~ 0.5
Rockwell Hardness	ASTM D785	R - scale	119
Tensile Strength @ Yield	ISO 527	MPa	51
Tensile Strength @ Break	ISO 527	MPa	50
Elongation @ Yield	ISO 527	%	6.3
Elongation @ Break	ISO 527	%	130
Flexural Strength	ISO 178	MPa	76
Flexural Modulus	ISO 178	MPa	1,800
Izod Impact Strength Notched @ 23	ISO 180	KJ/m2	93
Heat Distortion Temperature @ 0.455 MPa / @ 1.820 MPa	ISO 75		110 / 94
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	81

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