

Technical Data Sheet

ECOZEN® YF300



Product description

ECOZEN® is a glycol-modified polyethylene terephthalate (PETG) with exceptional transparency and chemical resistance. Due to plant-derived biomass components (Carbon-based 10%), ECOZEN® has more heat resistance compared to SKYGREEN® grades. ECOZEN® does not contain Bisphenol derivatives (BPA, etc.) and Phthalate-based plasticizer components regulated by the EU RoHS regulations. It also meets the requirements for food contact materials in Korea, the US, Europe, China, and Japan.

Applications

- Consumer Housewares
- Home Appliance
- Food and Beverage Packaging

Key Attributes

- High Heat Resistance
- Clarity

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® YF300

ASTM Method

Product Information

Test Method	Unit	Result
ASTM D792	-	1.27
ASTM D955	%	0.2 ~ 0.5
ASTM D785	R-scale	119
ASTM D638	Kgf/cm2	520
ASTM D638	Kgf/cm2	540
ASTM D638	%	6.8
ASTM D638	%	200
ASTM D790	Kgf/cm2	820
ASTM D790	Kgf/cm2	19,500
ASTM D256	J/m	860
ASTM D648	°C	99 / 85
ASTM D1003	%	< 1.0
ASTM D1003	%	86
	ASTM D792 ASTM D955 ASTM D785 ASTM D638 ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D790 ASTM D256 ASTM D648 ASTM D1003	ASTM D792-ASTM D955%ASTM D785R-scaleASTM D638Kgf/cm2ASTM D638%ASTM D638%ASTM D638%ASTM D638%ASTM D790Kgf/cm2ASTM D790Kgf/cm2ASTM D256J/mASTM D648°CASTM D1003%

The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.

Headquarter / R&D center

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Ver.1, '20.08.11



Typical properties for

ECOZEN® YF300

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	49
Tensile Strength @ Break	ISO 527	MPa	48
Elongation @ Yield	ISO 527	%	5.7
Elongation @ Break	ISO 527	%	150
Flexural Strength	ISO 178	MPa	73
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	°C	97/81
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	86

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