

SKYGREEN® S2008

SK Chemicals - Polyethylene Terephthalate Glycol Comonomer

General Information

Product Description

SKYGREEN® S2008 is a glycol-modified polyethylene terephthalate (PETG) with excellent clarity and processability that makes it an attractive solution for versatile end-use applications. S2008 meets the ISO 10993-1 guidelines and USP Class VI biocompatibility requirements. (ISO 10993-1 guidelines include 10993-3 genotoxicity, 10993-4 blood compatibility, 10993-5 cytotoxicity, 10993-6 muscle graft, 10993-10 sensitivity/stimulation, 10993-11 acute systemic toxicity, and Aman chronic systemic toxicity.) It has excellent optical/physical properties stability even after sterilization, satisfying the test requirements described in ISO 11607-1. As with other SKYGREEN® grades, S2008 meets the requirements for food contact materials in Korea, the US, Europe, China, and Japan.

Applications

- Medical Device
- Medical Packaging
- Sheet
- Construction
- Home Appliances
- Labware
- Food and Beverage Packaging
- Others

Key Attributes

- Clarity
- Transparency
- Processability

General

Features	<ul style="list-style-type: none"> • Excellent Processability • Food Contact Acceptable 	<ul style="list-style-type: none"> • Good Surface Finish • High Clarity
Uses	<ul style="list-style-type: none"> • Appliances • Beverage Packaging • Construction Applications 	<ul style="list-style-type: none"> • Food Packaging • Labware • Medical/Healthcare Applications
Appearance	<ul style="list-style-type: none"> • Clear/Transparent 	<ul style="list-style-type: none"> • Sheet

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6470	psi	ASTM D638
Tensile Stress (Yield)	7110	psi	ISO 527-2
Tensile Strength (Break)	5830	psi	ASTM D638
Tensile Stress (Break)	4350	psi	ISO 527-2
Tensile Elongation (Yield)	5.0	%	ASTM D638
Tensile Strain (Yield)	4.1	%	ISO 527-2
Tensile Elongation (Break)	250	%	ASTM D638
Tensile Strain (Break)	240	%	ISO 527-2
Flexural Modulus	306000	psi	ASTM D790
Flexural Modulus	278000	psi	ISO 178
Flexural Strength	10000	psi	ASTM D790

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Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	9720	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.9	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	4.2	ft·lb/in ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	163	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	144	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	147	°F	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Light Transmittance	90.0	%	ASTM D1003
Haze	< 1.00	%	ASTM D1003