

Technical Data

Product Description

Available in 4 unique grades, SKYGREEN®'s outstanding features make it an idea choice for a variety of applications. SKYGREEN® PN series offers combination of great clarity and flowability that makes it suitable for injection molding intricate designs with small and thin parts. Among other SKYGREEN® grades, PN300 has outstanding flowability. SKYGREEN® PN 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

- Cosmetic Packaging
- Skin Care Packaging (Bottles, Jars)
- Color Cosmetics Packaging
- Consumer Housewares
- Home Appliances
- Food and Beverage Packaging
- Stationery
- Others

Key Attributes

- Clarity
- Chemical Resistance
- Flowability

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• SK Chemicals		
Availability	• Asia Pacific	• Europe	• North America
Features	• BPA Free • Chemical Resistant	• Food Contact Acceptable • High Clarity	• High Flow
Uses	• Appliances • Beverage Packaging • Bottles	• Cosmetic Packaging • Food Packaging • Household Goods	• Stationary Supplies
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.27 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield	46.1 MPa	ASTM D638
Yield	49.0 MPa	ISO 527-2
Break	46.1 MPa	ASTM D638
Break	23.0 MPa	ISO 527-2



Mechanical	Nominal Value Unit	Test Method
Tensile Elongation		
Yield	4.5 %	ASTM D638
Yield	4.1 %	ISO 527-2
Break	120 %	ASTM D638
Break	40 %	ISO 527-2
Flexural Modulus	1890 MPa	ASTM D790 ISO 178
Flexural Strength		
--	70.6 MPa	ASTM D790
--	67.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	110 J/m	ASTM D256
23°C	7.0 kJ/m ²	ISO 180
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	105	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	70.0 °C	ASTM D648
0.45 MPa, Unannealed	72.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	62.0 °C	ASTM D648 ISO 75-2/A
Optical	Nominal Value Unit	Test Method
Light Transmittance	90.0 %	ASTM D1003
Haze	< 1.00 %	ASTM D1003

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



Where to Buy

Supplier**SK Chemicals****Telephone:** +82-2-2008-2292 (South East Asia); +1-949-336-8088 (USA); +49-6196-902-0612 (Germany)**Web:** <http://www.skchemicals.com/>

Distributor**Chase Plastic Services, Inc.***Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>***Telephone:** 800-232-4273**Web:** <http://www.chaseplastics.com/>**Availability:** North America**Global Plastics****Telephone:** 800-417-4605**Web:** <https://www.globalplastics.net/>**Availability:** North America**Marco Polo****Telephone:** 631-629-4520**Web:** <https://www.mar-pol.com/>**Availability:** North America**PolySource***PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>***Telephone:** 816-540-5300**Web:** <http://www.polysource.net/>**Availability:** Canada, Mexico, United States**Southland Polymers****Telephone:** 562-921-0444**Web:** <http://www.southlandpolymers.com/>**Availability:** Canada, Mexico, United States**Tex-Co Resin Distribution, Inc.****Telephone:** 877-908-3926**Web:** <http://www.texcoresin.com/>**Availability:** North America