TECHNICAL DATA SHEET

HYOSUNG Polypropylene
The Next Circular Economy

J800S

Homo Polymer
For Disposable Syringe

Product Description

HYOSUNG Polypropylene J800S is specially designed polypropylene homo polymer that features excellent stiffness. **PP J800S** is suitable for disposable syringe parts (plunger) for EO gas sterilization due to high stiffness and slip property. This product complies with United States Pharmacopeia (USP) class VI, and registered on US FDA Drug Master File list (DMF No. 21499). This product is not intended for gamma-ray sterilization.

Application

Disposable syringes (Plunger)
Housewares
Electric appliances

Features

Biocompatibility (USP Class VI)
DMF No. 21499 listed
Phthalate free

Properties

Properties	Test Method	Typical Value	Unit
Resin Properties			
Melt Index(230℃, 2.16kg)	ASTM D1238	20	g/10min
Density	ASTM D792	0.90	g/cm^3
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	430	kg/cm^2
Flexural Modulus	ASTM D790	22,500	kg/cm^2
Izod Impact Strength, Notched at 23℃	ASTM D256	3.0	kg·cm/cm
Rockwell Hardness	ASTM D785	110	R-Scale
Heat Deflection Temperature (0.45MPa)	ASTM D648	140	℃
Vicat Softening Temperature (10N)	ASTM D1525	155	℃

* The values listed above are typical values for reference purpose only and shall not be construed as specifications.

Storage and Handling

This product should be stored in dry condition at temperature below 40˚C and protected from UV-light. When condensation is visible or can be expected, pre-drying is recommended. (Drying condition: 80~100℃ / 2~4hours at air circulated condition)

Disclaimer

All information, including product characteristics, applications and properties are for reference purpose only and shall not be construed as specifications. Before using this product, customers should carefully review the instructions for use of the product to determine whether the product is suitable for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of this product. HYOSUNG CHEMICAL CORPORATION assumes no legal responsibility or liability for the contents of this document. We reserve the right to change the contents of this document without prior notice. This document is copyrighted by HYOSUNG CHEMICAL CORPORATION.

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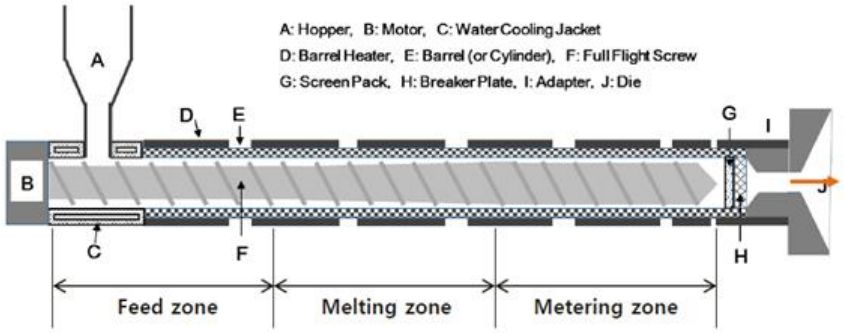
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Processing Parameters



Specifications	Unit	Recommended Parameters
Feed Zone Temperature	℃	170 ~ 190
Melting Zone Temperature	℃	180 ~ 230
Metering Zone Temperature	℃	200 ~ 250
Die or Nozzle Temperature	℃	200 ~ 250
Mold Temperature	℃	30 ~ 50
Injection Pressure	Bar	600 ~ 1300

Considerations
Due to variations in screw design and heat efficiency according to types of facilities, optimal conditions for each facility may differ. Therefore, the optimal temperature conditions for each facility must be taken into consideration depending on thickness of final products, injection pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, and others.

Health, Safety and Food Contact Regulations

PP J800S complies with FDA requirements in the code of Federal Regulations in 21 CFR 177. 1520 for food contact and European Commission Regulation (EU) No 10/2011 and its amendments up to (EU) No 2023/1627 with regard to plastic materials and articles intended to come into contact with food.

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