

POLYPROPYLENE RESIN PRODUCTS INTRODUCTION

SINOSTAR PEC HOLDINGS LIMITED



ABOUT SINOSTAR PEC HOLDINGS LIMITED.



01

Global Vision, Solid Foundation

Established in 2006 and registered in Singapore, Sinostar PEC Holding Company Limited is a premier producer of high-end chemical materials and a wholly integrated part of the Group's petrochemical operations.

- SGX Listed: Listed on the Mainboard of the Singapore Exchange since 2007 (Stock Code: C9Q).
- Strategic Location: Our principal manufacturing operations are based in the Dongming Petrochemical Industrial Park in Shandong Province, China.

02

Advanced Manufacturing Capacity

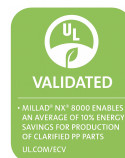
Our subsidiary, Hengchang Chemical, operates technologically advanced production units with impressive annual capacities:

- 450,000 tons: Gas separation
- 320,000 tons: Mixed-alkane dehydrogenation
- 260,000 tons: Etherification and ether-cracking
- 200,000 tons: High-end polypropylene
- 20,000 tons: High-purity isobutylene

03

Certified Excellence & Quality

Distinguished by high purity, safety, and reliability, our products are designed to meet the stringent requirements of global high-end markets. Our high-end polypropylene holds food-grade, medical-grade, and UL certifications.



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Key Applications Our high-performance materials can be used extensively across:

- Medical Devices & Aerospace Components
- Electric Vehicle (EV) Applications
- Food & Beverage Packaging
- Household Appliances & Consumer Products
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ULTRA-CLEAR RANDOM POLYPROPYLENE RESIN

PRODUCT PRESENTATION

HC8016/HC8026 series is an ultra-clear injection molding grade polypropylene (PP-R) developed by Dongming Hengchang Chemical. Incorporating Milliken's fourth-generation clarifier Millad® NX® 8000, it delivers exceptional glass-like transparency and outstanding rigidity-impact balance. HC8016/HC8026 serves as a high-performance alternative to general-purpose polystyrene (GPPS) in applications demanding superior optical clarity, such as premium packaging containers and tableware. Compared to GPPS, HC8016/HC8026 exhibits significantly enhanced impact resistance and improved heat resistance. Additionally, HC8016/HC8026 enables part weight reduction exceeding 15% versus PS materials while maintaining equivalent functional performance.

APPLICATIONS

HC8016/HC8026 is engineered for injection molding and injection stretch blow molding (ISBM) processes, ideal for: Infant food containers, Personal care and household product packaging, Stationery display cases, Confectionery and snack packaging and Crystal-clear tableware



REPRESENTATIVE PROPERTIES (NON-GUARANTEED VALUES)

Property	Unit	HC8016	HC8026	Test Method
Melt Flow Rate (MFR)	g/10min	16	26	GB/T 3682.1-2018
Tensile Stress at Yield	MPa	30.5	30.5	GB/T 1040.2-2022
Flexural Modulus	MPa	1198	1250	GB/T 9341-2008
Charpy Notched Impact Strength (23°C)	kJ/m ²	4.1	3.8	GB/T 1043.1-2008
Haze	%	4.1	4.1	GB/T 2410-2008
Yellow Index (YI)	--	-15.2	-15.2	HG/T 3862-2006

HIGH TRANSPARENT POLYPROPYLENE RANDOM COPOLYMER



PRODUCT PRESENTATION

The BH02 and HC-RP340N/R/S/T series is a random copolymer clear polypropylene developed by Dongming Hengchang Chemical. Utilizing Milliken's fourth-generation clarifier Millad® NX® 8000, this series delivers exceptional glass-like transparency and outstanding impact resistance. It demonstrates high flow characteristics, reducing processing energy consumption by 10-15%, shortening cycle times, and significantly minimizing molding defects such as vacuum bubbles. Compliant with China's YY0242-2007 medical-grade polypropylene standard and GB 4806 series food contact regulations, it is suitable for medical devices and food packaging applications.

APPLICATIONS

Grade	Processing Method	Application
BH02	IBM	Drinking packaging, dairy containers, medical packaging
HC-RP340N	IM, ISBM	Food storage containers, drinking cups, juice bottles
HC-RP340R	IM	Storage boxes, stationery packaging, disposable syringes
HC-RP340S	IM	Disposable syringes, food packaging containers
HC-RP340T	TWIM	Thin-wall transparent packaging



REPRESENTATIVE PROPERTIES (NON-GUARANTEED VALUES)

Property	Unit	BH02	HC-RP 340N	HC-RP 340R	HC-RP 340S	HC-RP 340T	Test Method
Melt Flow Rate (MFR)	g/10min	1.65	16	25	45	60	GB/T 3682.1-2018
Charpy Notched Impact	kJ/m ²	≥10	6.0	5.5	4.5	4.0	GB/T 1043.1-2008
Strength (23°C)							
Tensile Stress at Yield	MPa	26	26	26	26	26	GB/T 1040.2-2006
Flexural Modulus	MPa	851	1000	1000	1000	1000	GB/T 9341-2008
Haze	%	10	10	10	10	10	GB/T 2410-2008
Yellowness Index (YI)	--	-10	-10	-10	-10	-10	HG/T 3862-2006



HIGH MELTING POINT TRANSPARENT POLYPROPYLENE RANDOM COPOLYMER

PRODUCT PRESENTATION

HC-M700B/M600B is a high-flow polypropylene (PP-R) developed by Dongming Hengchang Chemical for optimized performance in bubble teacup injection molding. With a melt flow rate (MFR) of 70/60 g/10min and enhanced by Milliken's Hyperform® HPN® nucleation technology, this material delivers exceptional stiffness-toughness balance and dimensional stability. Its rapid crystallization characteristics enable shorter cycle times, while accommodating both transparent and matte finish requirements for superior shelf appeal.

APPLICATIONS

HC-M700B is engineered for thin-wall injection molding in food packaging, Clear & Matte Bubble Teacups, Iced Beverage Containers, Fast-Food Containers, and Ready-to-Eat Dessert Cups.



REPRESENTATIVE PROPERTIES (NON-GUARANTEED VALUES)

Property	Unit	HC-M700B	HC-M600B	Test Method
Melt Flow Rate (MFR)	g/10min	70	60	GB/T 3682.1-2018
Tensile Stress at Yield	MPa	26	26	GB/T 1040.2-2022
Flexural Modulus	MPa	1018	1028	GB/T 9341-2008
Charpy Notched Impact Strength (23°C)	kJ/m ²	4.1	4.3	GB/T 1043.1-2008
Yellowness Index (YI)	—	-7.5	-7.6	HG/T 3862-2006

HIGH MELTING POINT THIN-WALLED INJECTION MOLDED POLYPROPYLENE RESIN

PRODUCT PRESENTATION

The HC-HP648T-M/648T-ME series is a high-flow thin-wall injection molding polypropylene resin developed by Dongming Hengchang Chemical. Produced via hydrogen modifier method without peroxide residues and enhanced by Milliken's Hyperform® HPN® nucleating agent, this series offers high crystallization rate, excellent flowability, low shrinkage, and good clarity. It is designed for high-speed thin-wall injection molding processes and is ideal for food packaging containers. The series includes the homopolymer grade HC-HP648T-M and the copolymer grade HC-HP648T-ME, tailored for summer and winter operating conditions, respectively.

APPLICATIONS

- Disposable takeaway containers
- Food packaging containers (fruit boxes, dessert cups, sauce cups)



REPRESENTATIVE PROPERTIES (NON-GUARANTEED VALUES)

Property	Unit	HC-HP648T-M	HC-HP648T-ME	Test Method
Melt Flow Rate (MFR)	g/10min	70	70	GB/T 3682.1-2018
Charpy Notched Impact Strength (23°C)	kJ/m ²	1.9	2.1	GB/T 1043.1-2008
Tensile Stress at Yield	MPa	39	36	GB/T 1040.2-2022
Flexural Modulus	MPa	1900	1700	GB/T 9341-2008
Yellowness Index (YI)	—	-5	-5	HG/T 3862-2006



HIGH MODULUS HOMO POLYPROPYLENE RESIN



PRODUCT PRESENTATION

HC810 and HC830 are newly developed high-crystalline homopolymer polypropylene products from Dongming Hengchang Chemical. Using Hyperform high-efficiency nucleating agents, they offer excellent rigidity, heat resistance, and gloss. Suitable for injection molding processes, they are ideal for producing home appliance parts, toys, automotive modification materials, disposable knives and forks, and hot food containers.

APPLICATIONS

Disposable cutlery, Home appliance parts and Toys.



REPRESENTATIVE PROPERTIES (NON-GUARANTEED VALUES)

Property	Unit	HC810	HC830	Test Method
Melt Flow Rate (MFR)	g/10min	10	30	GB/T 3682.1-2018
Charpy Notched Impact Strength (23°C)	kJ/m ²	2.0	1.8	GB/T 1043.1-2008
Tensile Stress at Yield	MPa	30	32	GB/T 1040.2-2022
Flexural Modulus	MPa	2300	2300	GB/T 9341-2008



OUR VALUE:
INTEGRITY. SELF-DRIVEN. INNOVATION. DEDICATION

CONTACT US:
ADDRESS:
1 TEMASEK AVENUE, #30-01 MILLENIA TOWER, SINGAPORE 039192

TEL:
+65 9759 3996

WEB:
SINOSTAR-PEC.COM