

Product Data Sheet

SECCO HD5401AA



High Density Polyethylene

Product Description

HD5401AA is a 1-hexane high density polyethylene resin with a broad molecular weight distribution, outstanding balance of stiffness, toughness and environmental stress cracking resistance, suitable for producing various blown molding containers of medium volume.

Typical Applications

Blown Molding: Containers (1-60L) for various chemicals (like pesticide, chemical reagent), food (like liquor, condiment, food additives) and daily chemicals

Typical Property Values

Properties	Typical values	Units	Test methods
Physical Properties			
Melt Flow Rate (190°C/21.6 kg)	9.5	g/10min	GB/T 3682.1
Density (non-annealed)	951.0	kg/m ³	Q31/0116000326C001 Appendix D
Melting Temperature (DSC)	132	°C	GB/T 19466.3
Mechanical Properties			
Tensile Strength at Yield	27	MPa	GB/T 1040.2
Tensile Elongation at Break	700	%	GB/T 1040.2
Flexural Modulus	1300	MPa	GB/T 9341
Charpy Impact Strength, notched (23°C)	23	kJ/m ²	GB/T 1043.1
Environmental Stress Cracking Resistance (Method B, 10% Igepal, F ₅₀)	230	hr	GB/T 1842
Appearance Performances			
Whiteness	69	%	ASTM E313
Thermal Properties			
Heat Deflection Temperature (0.45 MPa)	71	°C	GB/T 1634.2
Vicat Softening Point (A ₅₀)	125	°C	GB/T 1633

Notes

* ESCR value basically depends on the test method

* These are typical properties only and should not be construed as specifications

Disclaimer: All information provided in this document, whether it is data, typical applications, product features, etc., is put forward on the basis of research results and is believed to be reliable; However, it is not a guarantee for this product. Users and other users should make their own judgments on whether this product and the contents listed in this document are suitable for its specific use, and be responsible for the risks, results and impacts generated, and ensure that its disposal complies with relevant regulations and other government regulations. Under no circumstances will SECCO be responsible for any consequences arising from the use of the above information or the application and processing of this product.

* Recommended processing temperature: 180 ~ 210°C

* The information in this document was published in November 2022. When an updated version is released, the previous version of the same grade is automatically invalid

Product Compliance

HD5401AA complies with GB 4806.6-2016 *National Food Safety Standard-Plastic Resin used in Food-contact*, FDA regulation 21 CFR 177.1520(c) 2.1 and the RoHS Directive 2011/65/EU. Additives those do not comply with national regulations, such as phthalates, are not intentionally used in **HD5401AA**. However, the customer is still responsible for determining whether the fabricated product is in compliance with applicable laws and regulations.

Storage

The storage area for polyethylene resin should be dry, and preferable to normal temperature. The resin must be protected from direct sunlight, and heat resource. SECCO would not give warranty to bad storage conditions which may lead to color change, bad odor and inadequate product performance. It is generally recommended to convert all materials latest within 6 months from the date of delivery.

Safety and Material Handling

SECCO polyethylene resin has a very low degree of toxicity under normal conditions of use. For more detailed information, please contact your SECCO representative or the local suppliers to get the Material Safety Data Sheet (MSDS) for High Density Polyethylene.

For additional technical and sales assistance, please contact

Shanghai SECCO Petrochemical Co., Ltd

Registered address: NO. 557 South Nanyinhe Road, Shanghai Chemical Industrial Park

Contact Address: 30F, A Building, Fareast International Plaza, No. 319, Xianxia Rd., Changning District, Shanghai

Tel: +86(0)21 5257 4688

Fax: +86(0)21 6209 7070

Website: www.secco.com.cn

Disclaimer: All information provided in this document, whether it is data, typical applications, product features, etc., is put forward on the basis of research results and is believed to be reliable; However, it is not a guarantee for this product. Users and other users should make their own judgments on whether this product and the contents listed in this document are suitable for its specific use, and be responsible for the risks, results and impacts generated, and ensure that its disposal complies with relevant regulations and other government regulations. Under no circumstances will SECCO be responsible for any consequences arising from the use of the above information or the application and processing of this product.