

Product Data Sheet

SECCO HD5502FA



High Density Polyethylene

Product Description

HD5502FA is a 1-hexane high density polyethylene resin with good processing ability, mechanical performance and environmental stress cracking resistance, which is widely used in various small blown molding products. They possess excellent surface glossiness and stiffness.

Typical Applications

Blown Molding: Containers (< 5L) for food, lubricant and other general chemicals.

Typical Property Values

Properties	Typical values	Units	Test methods
Physical Properties			
Melt Flow Rate (190°C/10 kg)	4.5	g/10min	GB/T 3682.1
Density (non-annealed)	952.5	kg/m ³	Q31/0116000326C001 Appendix D
Melting Temperature (DSC)	132	°C	GB/T 19466.3
Mechanical Properties			
Tensile Strength at Yield	28	MPa	GB/T 1040.2
Tensile Elongation at Break	700	%	GB/T 1040.2
Flexural Modulus	1350	MPa	GB/T 9341
Charpy Impact Strength, notched (23°C)	12.5	kJ/m ²	GB/T 1043.1
Environmental Stress Cracking Resistance (Method B, 10% Igepal, F ₅₀)	62	hr	GB/T 1842
Thermal Properties			
Heat Deflection Temperature (0.45 MPa)	68	°C	GB/T 1634.2
Vicat Softening Point (A ₅₀)	121	°C	GB/T 1633

Notes

- * These are typical properties only and should not be construed as specifications
- * ESCR value basically depends on the test method
- * Recommended processing temperature: 180 ~ 200°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

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Product Compliance

HD5502FA 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 **HD5502FA**. 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

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