

ENCASE™

THERMOPLASTIC COATINGS



Encase™ is a low-density polyethylene thermoplastic powder coating explicitly designed for the finishing of wire goods and other corrosion-prone products. Encase™ offers excellent flexibility, combined with impact resistance and powerful chemical resistance. Encase™ is the ideal coating solution for appliance racks as well as a wide range of household products. Encase™ is environmentally friendly and emits no harmful VOCs.



OVERVIEW

Polyethylene Thermoplastic Coatings for Wire Goods.

Polyethylene thermoplastic coatings such as Encase™ provide durable, corrosion-resistant, and attractive finishes for a wide range of wire goods. Commonly used on items like freezer baskets, storage shelves, and retail display units, these coatings offer long-lasting protection, smooth finishes, and excellent resistance to moisture, impact, and chemicals—ideal for both industrial and consumer environments.

MAIN FEATURES

- **Encapsulation Coating** – Provides a full, uniform protective layer that completely surrounds and seals the wire or component.
- **Moderate Impact Resistance and Flexibility** – Offers a balance of durability and pliability suitable for standard use and handling conditions.

TYPICAL APPLICATIONS

- **Fridge/Freezer Wire Shelving** – Interior wire shelves, sliding baskets, bottle racks
- **Household Wire Goods** – Dish drainers, closet organizers, laundry baskets
- **Storage and Utility Shelving** – Garage and warehouse shelving, kitchen wire shelves, tool storage racks
- **Retail Display Fixtures** – Product display racks, point-of-sale stands, hanging wire grids
- **Medical and Laboratory Baskets** – Sterilization trays, instrument holders, wire containment baskets
- **Office and Home Accessories** – Paper trays, file organizers, wire mesh bins



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TECHNICAL PROPERTIES

Essential technical details are outlined below. Full Technical Data Sheet (TDS) available upon request.

TYPE	METHOD	RESULT
GRADE		Fluidize bed, electrostatic spray
SPECIFIC GRAVITY	ASTM D792	0.943 g/cm ³
HARDNESS	ASTM D2240	55
VICAT SOFTENING POINT	ASTM D1525	208°F (97°C)
QUV	ASTM G53	500 hrs., no significant change in color or gloss
TABER ABRASION	ASTM D4060	29 mg loss, CS 17 wheel
SALT FOG (1,000 HOURS INSCRIBED)	ASTM B117	No Blistering
MELT INDEX	ASTM D1238	30 2.7% Loss
GLOSS RETENTION	ASTM B523	No effects, 10 cycles
FREEZE / THAW	UPC FT-1	
IMPACT RESISTANCE		160 Direct / 160 Indirect, no impact fractures
ADGESION		> 2000 psi (13,78 MPa)

SOLUTIONS

We provide reliable thermoplastic coating solutions tailored for a wide range of wire goods applications. From household and kitchen use to industrial and medical settings, our coatings deliver durability, protection, and performance.

SUPPORT

To ensure the life of your asset is maximized, a simple and regular maintenance program should be implemented.

At The Protech Group, we prioritize your satisfaction and success. That's why we offer free support, even when challenges arise. From cleaning and phosphating all the way to the final cured film appearance, our experts are dedicated to assisting you every step of the way with proven solutions you can trust.

FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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