



Dow Coating Materials

RHOBARR™ Barrier Coating Binders

Fluorocarbon-free* Solution for Oil and Grease (OGR) Barrier Coatings

RHOBARR™ OGR Barrier Coating Binders offer food contact compliant, high solids, aqueous emulsions that allow customized performance for a wide array of applications in the food packaging and consumer materials markets.

RHOBARR™ 130 Binder offers exceptional fatty acid resistance and minimal block, while RHOBARR™ 110 Binder demonstrates excellent performance in folded kit testing and water resistance. Both materials offer exceptional oil and grease resistance for a wide selection of substances.

Features and Benefits

- Block resistance
- Fluorocarbon-free*
- Improved folded OGR performance
- Food contact compliant (FDA 176.170/176.180 and BfR 14/36)
- High solids, low viscosity, aqueous emulsion
- Formulation flexibility to offer customized performance

*manufactured without fluorocarbons



Oil and Grease Resistance Performance












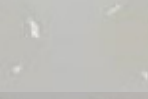
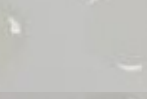





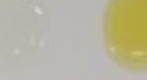






	Water	Corn	Canola	Olive	Sunflower	Soybean	Oleic Acid	Crisco (150°C)	Butter (60°C)
Uncoated Paperboard									
RHOBARR™ 110™ Binder based coating									
RHOBARR™ 130 Binder based coating									

Figure 1. Paperboard coated with RHOBARR™ 110 and 130 Binder based coatings demonstrate no saturation of underlying board versus uncoated paperboard when exposed to a broad range of substances.

Proven Performance

RHOBARR™ OGR Barrier Coating Binders demonstrate excellent results in a variety of lab tests designed to illustrate performance attributes of barrier coating candidates.

Both RHOBARR™ 130 and RHOBARR™ 110 OGR Barrier Coating Binders show exceptional flat and folded kit scores (**Figure 2**) as well as very good resistance to fatty acids and oils (**Figure 3**).

For use in certain packaging areas where heat seal may be required, both RHOBARR™ OGR Barrier Coating Binders can offer effective heat sealability, in addition to offering excellent water resistance.

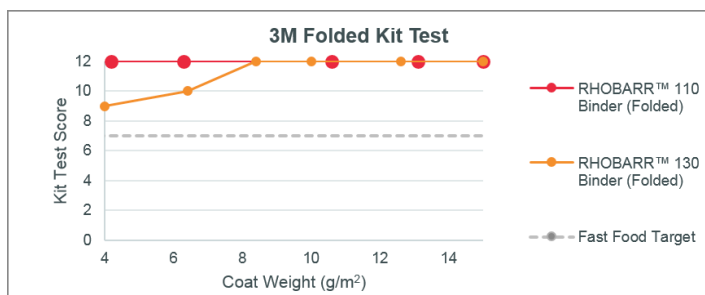


Figure 2. RHOBARR™ 110 Binder shows excellent folded kit performance even at coat weights as low as 4 g/m² on free sheet paper.

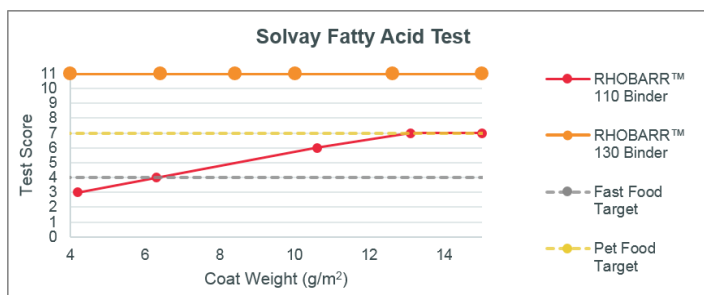


Figure 3. RHOBARR™ 130 Binder demonstrates exceptional fatty acid resistance over a wide range of coat weights.

RHOBARR™ Binders Typical Physical Properties

Property	Value
RHOBARR™ 110 OGR Barrier Coating Binder	
Solids	45%
Viscosity	250 cps (60rpm)
pH	9.0
RHOBARR™ 130 OGR Barrier Coating Binder	
Solids	50%
Viscosity	150 cps (60rpm)
pH	8.5

Properties are typical but not to be construed as specifications.

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800-447-4369

www.dowcoatingmaterials.com

Form no: 884-0190-0417-NAR-EN-CDP

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