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*Industrial, Aviation,
 Medical Applications,
 Offshore*

Data Sheet - RMB Bio-Armor Rotational Lining Grade HDPE

RMB Bio-Armor comes in two distinct blends:

- Bio-Armor with MIC-Guard provides anti-microbial properties as tested per ASTM E2149
- Bio-Armor with MACRO-GUARD resists biological fouling in static, immersed seawater conditions.

Physical Properties	Specification	Value	Notes
Density	ASTM D1505	0.94 g./cc.	
Mechanical Properties			
Tensile at Break*	ASTM D638	1760 PSI	2% Yield
Elongation at Break*	ASTM D638	900%	
Flexural Modulus	ASTM D790	71 KSI	1% Secant
Thermal Properties			
Melt Index	ASTM D1238	5.5 g/10 min.	
Heat Distortion Temperature			
@66 PSI	ASTM D648	122°F	
@264 PSI	ASTM D648	97°F	
Upper Service Temperature			
		180°F	

*Based on Type IV at 2 i.p.m.

Characteristics: RMB Rotational Lining Grade HDPE is a modified thermoplastic polyethylene-based rotational lining resin. It offers exceptional stress crack resistance and excellent adhesion to metals and selected polymers. Typical applications include linings and coatings for pipes, drums, hollow vessels and irregularly shaped parts, and provides resistance to microbial activity or resistance to biological fouling particularly in offshore applications.

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