



LiquidHD Series

HD0446UG

High Density Polyethylene

Melt Index: 4

Density: 0.946

VINPOL EXTREME HD0446UG is a granular, high density polyethylene powder specifically designed for rotomolding applications such as Kayaks and watercraft offering an optimal combination of impact and stiffness. This product also maximizes optimal processing conditions such as cost-saving lower peak internal air temperatures, easier molding, more consistent wall sections giving a wider processing window. This product has a UV16 package and is available in natural and custom pre-color versions.

The Vinpol Roto Evolution Series delivers next generation technology advances for rotational molders. Engineered and tested for high performance applications, this lineup offers expanded processing windows and differentiated UV resistant additive packages. The results are industry leading durability and impact with improved melt flow options.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	4	g/10 min	ASTM D-1238
Density	0.946	g/cm ³	ASTM D-792
Bulk Density	34 +/- 5	g/cm ³	ARM
Flexural Modulus, Tangent	137,000 (945)	psi (MPa)	ASTM D-790
Tensile Yield Strength	3,260 (22)	psi (MPa)	ASTM D-638
UV16 Weathering Test	Pass	-	ASTM D-2565
Heat Deflection Temperature, 66psi	142 (61)	°F (°C)	ASTM D-648
ARM Low Temperature Impact, 1/8"	55 (75)	ft-lbs (J)	ARM
Flow Rate	< 30	Seconds	ARM

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.

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