



LiquidHD Series

HD0450UG

High Density Polyethylene

Melt Index: 3.5

Density: 0.950

VINPOL EXTREME HD0450UG is a 35 mesh, granular, high density polyethylene powder providing Extreme Stiffness, Impact Resistance, and Toughness. This product is specifically designed for rotomolding applications such as Whitewater Kayaks and Motorized watercraft where high abrasion resistance and an advanced UV20 package is required. This product 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	3.5	g/10 min	ASTM D-1238
Density	0.950	g/cm ³	ASTM D-792
Bulk Density	34 +/- 5	g/cm ³	ARM
Flexural Modulus, Tangent	180,000 (1,240)	psi (MPa)	ASTM D-790
Tensile Yield Strength	3,260 (22.5)	psi (MPa)	ASTM D-638
UV20 Weathering Test	Pass	-	ASTM D-2565
Heat Deflection Temperature, 66psi	149 (62)	°F (°C)	ASTM D-648
ARM Cold Temperature Impact, 1/8", -40°F Conditioned, 10 lb Dart	65 (88)	ft-lbs (J)	ARM
Flow Rate	< 30	Seconds	ARM

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