



MD0438UG

General Purpose Medium Density Polyethylene

Melt Index: 4

Density: 0.938

VINPOL RotoEvolution General Purpose MD0438UG is a 35 mesh, granular, medium density polyethylene powder providing a balance of stiffness, impact resistance, and toughness. This product is specifically designed for rotomolding applications such as chemical and agricultural tanks, recreational/consumer products, marine and bulk containers where high abrasion resistance and a UV8 package is required. This product is available in natural and custom pre-color versions.

Resin Property	Typical Value	Units	Test Method
Melt Index, 2.16 Kg at 190°C	4	g/10 min	ASTM D-1238
Density	0.938	g/cm ³	ASTM D-792
Bulk Density	34 +/- 5	g/cm ³	ARM
Flexural Modulus, Tangent	110,000 (758)	psi (MPa)	ASTM D-790
Tensile Yield Strength	2,800 (19)	psi (MPa)	ASTM D-638
UV8 Weathering Test	Pass	-	ASTM D-2565
Heat Deflection Temperature, 66psi	140 (60)	°F (°C)	ASTM D-648
ARM Cold Temperature Impact, 1/8", -40°F Conditioned, 10 lb Dart	52 (71)	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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