



# AQUATUF® HMP-334 (Roto)

Ravago Manufacturing Americas - High Density Polyethylene

Tuesday, November 5, 2019

## General Information

### Product Description

HMP-334 is the 35 mesh powder form of a High Density Polyethylene compound for rotational molding. HMP-334 applications include boats, canoes, kayaks and other water sport applications requiring good strength and toughness.

#### Key Features:

- Available as HMP, 35-mesh powder, or HM, pellets.
- Good moldability
- Excellent long term outdoor weatherability, UV8
- Balance of toughness and rigidity
- Good low temperature impact
- Improved stiffness
- Compounded for uniform additive dispersion
- Natural, Standard, custom or special effect colors available
- Excellent opacity

### General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Moldability • Good Weather Resistance	• High Rigidity • High Stiffness	• Low Temperature Impact Resistance • Ultra High Toughness
Appearance	• Colors Available	• Natural Color	
Forms	• Powder		
Processing Method	• Compression Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.949		ASTM D792
Apparent (Bulk) Density <sup>2</sup>	0.38	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Rotational Molded)	3200	psi	ASTM D638
Tensile Elongation (Break, Rotational Molded)	> 400	%	ASTM D638
Flexural Modulus - Tangent (Rotational Molded)	160000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength <sup>3</sup> (-40°F, Rotational Molded)	60	ft·lb	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Rotational Molded	144	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, Rotational Molded	122	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating 0.06 in		HB	UL 94
0.12 in		HB	

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Additional Information	Nominal Value	Unit	Test Method
Pourability <sup>2</sup>	< 30.0	sec	ASTM D1895

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 35-mesh powder

<sup>3</sup> F50