



AQUATUF® HMP-335 (Roto)

Ravago Manufacturing Americas - High Density Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

HMP-335 is a high-density polyethylene compound designed for applications like kayaks or boats that require a balance high stiffness and extreme toughness.

Key Features:

- 35-mesh powder
- Good moldability
- Excellent long term outdoor weatherability (UV15)
- Superior balance of toughness and rigidity
- High Stiffness
- Excellent low temperature impact
- Compounded for uniform additive dispersion
- Natural as well as standard, custom or special effect colors available
- Stock colors may be available. See Stock color bulletin
- Also available in pellet form as HM-335

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.946		ASTM D792
Apparent (Bulk) Density ²	0.38	g/cm ³	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)	3100	psi	ASTM D638
Tensile Elongation (Break, Rotational Molded)	> 400	%	ASTM D638
Flexural Modulus - Tangent (Rotational Molded)	130000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ³ (-40°F, Rotational Molded)	68	ft-lb	ARM
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		HB	
0.12 in		HB	
Additional Information	Nominal Value	Unit	Test Method
Pourability ²	< 30.0	sec	ASTM D1895

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 35-mesh powder

³ F50