

Ravago Compounds HMP-301 (Roto)

Ravago Manufacturing Americas - High Density Polyethylene

Sunday, November 17, 2019

General Information

Product Description

Key Features:

- 35-mesh powder
- Excellent long term outdoor weatherability (UV8)
- Balance of toughness and rigidity
- Excellent stiffness
- Good environmental stress crack resistance, ESCR
- 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-301

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Good Stiffness • Good Toughness • Good Weather Resistance • High ESCR (Stress Crack Resist.) • High Rigidity
Appearance	• Colors Available • Natural Color
Forms	• Powder
Processing Method	• Rotational Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940	g/cm ³	ASTM D792
Apparent (Bulk) Density ²	0.56	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, Rotational Molded, F50	1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Rotational Molded)	20.3	MPa	ASTM D638
Tensile Elongation (Break, Rotational Molded)	1000	%	ASTM D638
Flexural Modulus - Tangent (Rotational Molded)	896	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ³			ARM
-40°C, 3.18 mm, Rotational Molded	92	J	
-40°C, 6.35 mm, Rotational Molded	203	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, Rotational Molded	67.0	°C	ASTM D648
Deflection Temperature Under Load 1.8 MPa, Unannealed, Rotational Molded	41.0	°C	ASTM D648
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