



Ravago Compounds HMP-305 (Roto)

Ravago Manufacturing Americas - Medium Density Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

Key Features:

- 35-mesh powder
- Good moldability
- Excellent long term outdoor weatherability (UV8)
- Balance of toughness and rigidity
- Excellent low temperature impact
- Excellent environmental stress crack resistance, ESCR
- Compounded for uniform additive dispersion
- Natural as well as standard, custom or special effect colors available
- Stock colors available. See Stock color bulletin
- UL component recognition listing (E141240)
- Also available in pellet form as HM-305

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Good Moldability • Good Stiffness • Good Toughness • Good Weather Resistance • High ESCR (Stress Crack Resist.) • High Rigidity • Low Temperature Impact Resistance
UL File Number	• E141240
Appearance	• Colors Available • Natural Color
Forms	• Powder
Processing Method	• Rotational Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.936		ASTM D792
Apparent (Bulk) Density ²	0.34	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	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)	2800	psi	ASTM D638
Tensile Elongation (Break, Rotational Molded)	400	%	ASTM D638
Flexural Modulus - Tangent (Rotational Molded)	115000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ³ (-40°F, Rotational Molded)	68	ft-lb	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Rotational Molded	145	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, Rotational Molded	108	°F	ASTM D648

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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	msec	ASTM D1895

Notes

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

² 35-mesh powder

³ F50