

Ravago Compounds HMP-307 (Roto)

Medium Density Polyethylene
Ravago Manufacturing Americas, LLC

Message:

- Key Features:
- 35-mesh powder
 - Excellent 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 may be available. See Stock color bulletin
 - Excellent opacity
 - UL component recognition listing (E141240)
 - Also available in pellet form as HM-307

General Information			
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.933	g/cm ³	ASTM D792
Apparent Density ¹	0.34	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Rotational Molded, F50)	1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Rotational Molded)	19.3	MPa	ASTM D638
Tensile Elongation (Break, Rotational Molded)	400	%	ASTM D638

Flexural Modulus - Tangent (Rotational Molded)	758	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ² (-40°C, Rotational Molded)	83	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Rotational Molded	63.0	°C	
1.8 MPa, Unannealed, Rotational Molded	42.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.52 mm	HB		
3.05 mm	HB		
Additional Information	Nominal Value	Unit	Test Method
Pourability ³	30.0	sec	ASTM D1895
NOTE			
1.	35-mesh powder		
2.	F50		
3.	35-mesh powder		

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