

Ravago Compounds HMP-301 (Roto)

High Density Polyethylene

Ravago Manufacturing Americas, LLC

Message:

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 Information			
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Apparent Density ¹	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 (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 ²			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			ASTM D648
0.45 MPa, Unannealed, Rotational Molded	67.0	°C	
1.8 MPa, Unannealed, Rotational Molded	41.0	°C	
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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

