

Ravago Compounds HM-301 (Comp)

Ravago Manufacturing Americas - High Density Polyethylene

Sunday, November 17, 2019

General Information

Product Description

Key Features:

- 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 powder form as HMP-301

General

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

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, Compression Molded, F50	1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	18.6	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - Tangent (Compression Molded)	931	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, Compression Molded	66.0	°C	ASTM D648
Deflection Temperature Under Load 1.8 MPa, Unannealed, Compression Molded	42.0	°C	ASTM D648

Notes

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