MARPOL® HDM 519-UV

High Density Polyethylene Copolymer

Marco Polo International, Inc.

Message:

Product Description: HDM 519-UV is a narrow molecular weight hexene copolymer used for injection molding applications, combining easy processability toughness. This resin is good for articles requiring low warpage, glossy surfaces and cold temperature impact resistance.
Recommended Applications: Food packaging containers, houseware articles, lawn & garden accessories, soda carrier totes, and toys.

General Information			
Additive	UV Stabilizer		
Features	Copolymer Food Contact Acceptable Good Processability Good Toughness Good UV Resistance Hexene Comonomer High Gloss Low Temperature Impact Resistance Low Warpage Narrow Molecular Weight Distribution		
Uses	Food Containers Food Packaging Household Goods Lawn and Garden Equipment Tool/Tote Box Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.952	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	19	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	< 2.00	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	23.3	MPa	ASTM D638
Tensile Elongation (Break)	48	%	ASTM D638
Flexural Modulus - 1% Secant	786	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-40°C)	53	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	62.2	°C	
1.8 MPa, Unannealed	40.0	°C	
Peak Melting Temperature	131	°C	ASTM D3418

Recommended distributors for this material

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