

MARPOL® HDM 507

High Density Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® HDM 507 is a narrow molecular weight distribution copolymer resin that exhibits excellent toughness and impact strength. This is also designed for good stiffness and processability over a variety of molding conditions.

Recommended Applications

Industrial containers, pails, crates, cases and structural foam

FDA Status

Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a

General Information			
Features	High Toughness		
	Rigid, good		
	High density		
	Copolymer		
	Impact resistance, high		
	Workability, good		
	Narrow molecular weight distribution		
Uses	Structural Foam		
	Industrial container		
	Barrel		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant	669	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	20.7	MPa	ASTM D638
Fracture	16.5	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	1010	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
14°C	64	J/m	ASTM D256
23°C	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

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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



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