

MARPOL® HDM 550

High Density Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® HDM 550 is an HDPE resin designed for part thinwalling in injection molding applications. This resin displays good processability and stiffness/impact balance. This resin has a narrow molecular weight distribution and high flow for processing ease.

Recommended Applications

Thin-walled containers, food containers and freezer containers

General Information			
Features	High density		
	Workability, good		
	High liquidity		
	Narrow molecular weight distribution		
Uses	Thin wall container		
	Container		
	Food container		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.942	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	6.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	20.9	MPa	ASTM D638
Fracture	14.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	37	%	ASTM D638
Flexural Modulus - 2% Secant	576	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	90.4	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-52.8	°C	ASTM D746

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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

