# MARPOL® HDP 580

### High Density Polyethylene Copolymer

#### Marco Polo International, Inc.

#### Message:

MARPOL® HDP 580 is a high performance copolymer that is designed for the most demanding requirements of pressure pipe applications. It has good long-term hoop strength performance, very high melt strength, and outstanding toughness even at low temperatures. Recommended Applications: Containers for potable water, oil, and gas. Distribution and gathering; chemical, industrial, mining, and sewer.

General Information			
Features	Copolymer		
	Good Melt Strength		
	Good Strength		
	Good Toughness		
	Low Temperature Toughness		
Uses	Containers		
	Industrial Applications		
	Industrial Containers		
	Mining Applications		
	Piping		
	Potable Water Applications		
Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	
190°C/21.6 kg	8.0	g/10 min	
Environmental Stress-Cracking Resistance			
(100% Igepal, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	22.1	MPa	
Break	34.5	MPa	
Tensile Elongation <sup>1</sup> (Break)	> 500	%	ASTM D638
Flexural Modulus			
	758	MPa	ASTM D3350
	965	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
NOTE			
1.	50 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

