

TOTAL Polyethylene HDPE 8183

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 8183 is a high density (MMW) polyethylene material. This product is available in North America and is processed by blow molding. The main features of TOTAL Polyethylene 8183 are:

Comply with REACH standard

high gloss

accessible food

excellent release agent

Typical application areas include:

packing

food contact applications

medical/health care

bottle

container

General Information			
Features	Highlight		
	Compliance of Food Exposure		
	Good demoulding performance		
	Narrow molecular weight distribution		
	Medium molecular weight		
Uses	Packaging		
	Industrial container		
	Bottle		
	Food packaging		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4		
	DMF not rated		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	USP Class VI		
	Particle		
	Blow molding		
	Processing Method		
	Physical		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.55	g/10 min	ASTM D1238
190°C/21.6 kg	19	g/10 min	ASTM D1238
190°C/5.0 kg	1.9	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (10% Igepal)	200	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	41		ASTM D785
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant ¹	758	MPa	ASTM D638
Tensile Strength ² (Yield)	22.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	500	%	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Peak Melting Temperature	129	°C	ASTM D3418
CLTE - Flow	1.8E-4	cm/cm/°C	ASTM D696
Additional Information			
Elongation at Break, ASTM D638, Type IV, 2 in/min: >500%Heat Distortion Temperature, ASTM D648: 158°F			
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		
3.	Type 4, 51mm/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

