

Exelene® HDPE 6007

High Density Polyethylene

Montachem International, Inc.

Message:

Exelene® HDPE 6007 is a High Density Polyethylene product. It can be processed by extrusion blow molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Exelene® HDPE 6007 include bottles and food contact applications.

Characteristics include:

Antioxidant

Food Contact Acceptable

Homopolymer

General Information			
Additive	Antioxidant (450 ppm) 2		
Features	Antioxidant		
	Food Contact Acceptable		
	Homopolymer		
Uses	Bottles		
	Fruit Juice Bottles		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.964	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.65	g/10 min	
190°C/21.6 kg	50	g/10 min	
Environmental Stress-Cracking Resistance			
50°C, 3.10 mm, 100% Igepal CO-630, F50	15.0 to 20.0	hr	ASTM D1693A
50°C, 1.90 mm, 100% Igepal CO-630, F50	8.00 to 10.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	30.3	MPa	ASTM D638
Tensile Elongation ² (Break)	> 300	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1650	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	126	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.0	°C	ASTM D648

Brittleness Temperature ⁴	< -76.0	°C	ASTM D746A
Vicat Softening Temperature	130	°C	ASTM D1525 ⁵

NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Type I, 13 mm/min		
4.	F50; 25 lbf-in		
5.	Rate A (50°C/h), Loading 1 (10 N)		

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



WECHAT