

Exelene® HDPE 6000

High Density Polyethylene

Montachem International, Inc.

Message:

Exelene® HDPE 6000 is a High Density Polyethylene product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Exelene® HDPE 6000 include containers and food contact applications.

Characteristics include:

Copolymer

Food Contact Acceptable

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Narrow Molecular Weight Distribution		
Uses	Containers		
	Drums		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Injection Molding		
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)	6.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 1.90 mm, 100% Igepal CO-630, F50)	6.50	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 23°C)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	29.6	MPa	ASTM D638
Tensile Elongation ² (Break)	1000	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1070	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature ⁴	< -76.0	°C	ASTM D746A
Vicat Softening Temperature	126	°C	ASTM D1525 ⁵
Melting Temperature	131	°C	DSC
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

