

Exelene® HDPE 20000

High Density Polyethylene

Montachem International, Inc.

Message:

Exelene® HDPE 20000 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 20000 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		
	Food Containers		
	Waste Containers		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 1.90 mm, 100% Igepal CO-630, F50)	< 2.00	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)	26.9	MPa	ASTM D638
Tensile Elongation ² (Break)	300	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1280	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	17	J/m	ASTM D256A
Tensile Impact Strength	189	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature ⁴	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	123	°C	ASTM D1525 ⁵
Melting Temperature	129	°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)

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