Exelene® HDPE 8000

High Density Polyethylene

Montachem International, Inc.

Message:

Exelene HDPE 8000: Antioxidant
Exelene HDPE 8000UV: Antioxidant, UV Stabilzer

General Information			
Additive	Antioxidant UV Stabilizer		
Features	Antioxidant Food Contact Acceptable Good UV Resistance Homopolymer Narrow Molecular Weight Distribution		
Uses	Containers Food Containers		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.961	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 1.90 mm, 100% Igepal CO-630, F50)	3.00	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec, 23°C)	70		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	31.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	> 600	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	1210	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256A
Tensile Impact Strength	168	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	87.0	°C	ASTM D648
Brittleness Temperature [4]	< -75.0	°C	ASTM D746A

Vicat Softening Temperature	128	°C	ASTM D1525 [5]
Melting Temperature	133	°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)

Recommended distributors for this material

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