

Exelene® HDPE 8000UV

High Density Polyethylene

Montachem International, Inc.

Message:

Applications:

Plastic beer, soda or juice boxes

Fruit and vegetable baskets

Characteristics:

The Exelene resin HDPE 8000UV meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

General Information			
Additive	Antioxidant		
	UV Stabilizer		
Features	Antioxidant		
	Food Contact Acceptable		
	Good UV Resistance		
	High Density		
	Homopolymer		
	Narrow Molecular Weight Distribution		
Uses	Food Containers		
	Food Service Applications		
	Fruit Juice Bottles		
	Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.959	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (1.90 mm, 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 Modulus - Tangent ¹ (3.20 mm)	1210	MPa	ASTM D638
Tensile Strength ² (Yield)	31.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	> 600	%	ASTM D638
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256A
Tensile Impact Strength	168	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (0.45 MPa, Unannealed)	87.0	°C	ASTM D648
Brittleness Temperature ⁵	< -75.0	°C	ASTM D746A
Melting Temperature	133	°C	DSC

NOTE

- | | |
|----|--------------------|
| 1. | 13 mm/min |
| 2. | Type IV, 50 mm/min |
| 3. | Type IV, 50 mm/min |
| 4. | 2°C/min |
| 5. | F50; 25 lbf*in |

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