

Exelene® HDPE PE80

High Density (HMW) Polyethylene

Montachem International, Inc.

Message:

Applications:

Corrugated pipe

Non pressure pipe extrusion

Characteristics:

The Exelene resin HDPE PE80 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			
Features	Food Contact Acceptable		
	High Density		
	High Molecular Weight		
Uses	Corrugated Pipe		
	Food Service Applications		
	Non-specific Food Applications		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.947	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.040	g/10 min	
190°C/21.6 kg	8.5	g/10 min	
Environmental Stress-Cracking Resistance (3.10 mm, F50)	500	hr	ASTM D1693A
ESCR - NCTL 15%	16.7	day	ASTM F2136
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.8	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	242	kJ/m ²	ASTM D1822
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		

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