CERTENE™ MMF-1237

Medium Density Polyethylene

Muehlstein

Message:

MMF-1237 is a certified prime grade Hexene copolymer HIGH MOLECULAR WEIGHT developed for production of industrial films of outstanding Stress Cracking Resistance. MMF-1237 features BROAD molecular weight distribution, easy processability, excellent melt strength, broad fusion sealing range, good balance of film mechanical properties, and meets the requirements of GR -GM13. MMF-1237 applications include Pond liners, Gas and Chemical containment liners, Landfill liners, and Geomembranes. Other suggested blown film applications include shopping bags, small shoppers, lamination films, wrapping films, multi-wall bag liners, and tablecloths. Minimum recommended film gauge is 12 microns (0.5 mil), and processing temperature 195° to 300°C. MMF-1237 complies with FDA regulation 21CFR 177.1520 (c) 3.2(a) and most international regulations concerning the use of Polyethylene in contact with food.

General Information			
Features	Broad Seal Range High ESCR (Stress Cracking Resistance) High molecular weight Copolymer hexene comonomer Workability, good Wide molecular weight distribution Good melt strength Compliance of Food Exposure		
Uses	Geo Membranes Films Laminate Lining Bags Industrial application		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.937	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.12	g/10 min	ASTM D1238
190°C/21.6 kg	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1]			
50°C, 1.75mm, 10% Igepal, molded, F50	> 1500	hr	ASTM D1693B
100°C, 1.75mm, 100% Igepal, molded, F50	> 1500	hr	ASTM D1693C
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield, Compression Molded)	18.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	> 700	%	ASTM D638
Flexural Modulus (Compression Molded)	800	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	Minimum 12 µm (0.5 mil)		
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	126	°C	ASTM D3417
Additional Information			
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	195 - 300	°C	
NOTE			
1.	Notched bent strip		

Recommended distributors for this material

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