

CERTENE™ MWG-2137

Medium Density Polyethylene
Muehlstein

Message:

MWG-2137 is a certified prime Hexane copolymer, HIGH MOLECULAR WEIGHT grade developed for GEOMEMBRANE applications. MWG-2137 features outstanding ESCR, excellent melt strength and good processability. MWG-2137 applications include liners for landfills, moisture barrier for tunnels and chemical tank containment liners. MWG-2137 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a), use conditions C through G per 21 CFR 176.170(c). Volume of food contacting article must be equal to or greater than 5 gallons.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
	hexene comonomer		
	Workability, good		
	Good melt strength		
Uses	Geo Membranes		
	Lining		
Agency Ratings	ASTM D 4976-PE225		
	FDA 21 CFR 176.170(c) conditions of use C through G		
	FDA 21 CFR 177.1520(c) 3.1a		
	GRI GM13 excpt carbon black requirements		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	21	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 1500	hr	ASTM D1693
SP-NCTL - Compression Molded	> 1.2	month	ASTM D5397
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	20.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - Tangent (Compression Molded)	830	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength ¹ (Compression Molded)	400	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	105	°C	ASTM D1525

Additional Information

Test specimens from compression molded plaque according to ASTM D 4703, Procedure C, Annex A1.

NOTE

1. Type S bar

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