

MWG-1238 Medium Density Polyethylene

MELT - 0.08

DENSITY - 0.938

MWG-1238 is a certified prime, High Molecular Weight Hexene copolymer developed for GEOMEMBRANE applications. **MWG-1238** has a Brittleness Temperature of <(-103°F, Type 1 Specimen) and a Vicat Softening Temperature of 243°F (Rate A, 50°C/h), Loading 1 (10N).

Features:

- Good melt strength
- Good processability
- Hexene comonomer
- High ESCR (Stress Crack Resist.)
- High molecular weight

Typical Applications:

- Liners for landfills
- Moisture barrier for tunnels
- Chemical tank containment liners

PROPERTIES	ASTM	UNIT	VALUES
PHYSICAL			
Density	D1505	g/cm ³	0.938
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	0.08
Melt Flow Rate (190°C, 21.6kg)	D1238	g/10 min	12
ESCR (10% Igepal)	D1693B	hr	>1500
ESCR (100% Igepal)	D1693C	hr	>1500
SP-NCTL	D5397	month	>1.4
MECHANICAL			
Tensile Strength (Yield, Type IV, 2.0 in/min)	D638	psi	2600
Tensile Elongation (Break, Type IV, 2.0 in/min)	D638	%	850
Flexural Modulus - Tangent (0.50in/min)	D790	psi	120k
HDT (66psi, unannealed)	D648A	°F	138
Durometer Hardness (Shore D)	D2240		65