CERTENE™ MWG-1238

Medium Density Polyethylene

Muehlstein

Message:

MWG-1238 is a certified prime, High Molecular Weight Hexene copolymer developed for GEOMEMBRANE applications. MWG-1238 features outstanding ESCR, excellent melt strength and good processability. MWG-1238 applications include landfill liners, moisture barrier for tunnels and chemical tank containment liners.

General Information			
Features	Copolymer		
	Good Melt Strength		
	Good Processability		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Geo Membranes		
	Liners		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.938	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	12	g/10 min	
Environmental Stress-Cracking Resistance			
10% Igepal	> 1500	hr	ASTM D1693B
100% Igepal	> 1500	hr	ASTM D1693C
SP-NCTL	> 1.4	month	ASTM D5397
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	17.9	MPa	ASTM D638
Tensile Elongation [2] (Break)	850	%	ASTM D638
Flexural Modulus - Tangent [3]	827	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	58.9	°C	ASTM D648A
Brittleness Temperature [4]	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	117	°C	ASTM D1525 [5]
NOTE			

1.	Type IV, 51 mm/min
2.	Type IV, 51 mm/min
3.	13 mm/min
4.	Type I Specimen
5.	Rate A (50°C/h), Loading 1 (10 N)

Recommended distributors for this material

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