



GMS 1 mm - HD Data Sheet

Hyma GMS-HD is black, high quality product manufactured from pure HDPE virgin polymer, made for geomembrane applications. **Hyma GMS-HD** contains approximately 97.5% polyethylene, 2.5% carbon black, and trace amounts of antioxidants and heat stabilizers. Chemical resistance, Stress crack resistance, High mechanical properties, Dimensional stability and UV stabilization are main features for **Hyma GMS-HD**

Product Specifications :

Test Property	Unit	Test Method	Minimum Average Values
Thickness ⁽¹⁾	mm	ASTM D-5199	1
Density	g / cm ³	ASTM D-792	0.94
Strength at Yield (Both directions)	N / mm	ASTMD-638/6693 Type VI 50mm/min lo = 33mm	15
Elongation at Yield (Both directions)	%		12
Strength at Break (Both directions)	N / mm	ASTMD-638/6693 Type VI 50mm/min lo = 50mm	27
Elongation at Break (Both directions)	%		700
Tear Resistance	N	ASTM D-1004	130
Puncture Resistance	N	ASTM D-4833	320
Carbon Black Content	%	ASTM D-1603	2.0- 3.0
Carbon Black Dispersion	Category	ASTM D-5596	1 or 2
Dimensional Stability	%	ASTM D-1204 (120°C / 1 h)	± 2
Melt Flow Index ⁽²⁾	g/10min	ASTM D-1238 (190°C / 2.16 kg)	1
Low Temperature Brittleness	° C	ASTM D-746	-77
Stress Crack Resistance (NCTL)	h	ASTM D-5397	400
Roll Width (approx.) ⁽³⁾	m	–	3m,3.5m,5.8m,6m,6.5m,7m
Surface	–	–	Double Sided Smooth

⁽¹⁾: 1 specimen taken every 1 meter of roll width . Tolerance ± 10 %

⁽²⁾: Standard test conditions : 190°C / 2.16 kg

⁽³⁾: Roll Width and Lengths have a tolerance of ±1%

^(*): All procedures and values are subject to change without prior notification .

