



HDPE BLACK 6070 GEOMEMBRANE High Density Polyethylene

PROPERTY	TEST METHOD	TYPICAL VALUES					
		0.50mm	0.75mm	1.0mm	1.5mm	2.0mm	2.5mm
THICKNESS (mm)	EN 1849-2	0.50	0.75	1.0	1.5	2.0	2.5
MASS PER UNIT (g/m ²)	EN 1849-2	475	710	940	1410	1870	2360
CARBON BLACK CONTENT (%)	ASTM D4218	2-3	2-3	2-3	2-3	2-3	2-3
DENSITY OF MEMBRANE (g/cm ³)	ASTM D 792	0.945	0.945	0.945	0.945	0.945	0.945
MELT FLOW INDEX (gr/10min.190°C/2.16kg)	ASTM D 1238	0.1-0.3	0.1-0.3	0.1-0.3	0.1-0.3	0.1-0.3	0.1-0.3
TENSILE STRENGTH AT YIELD (MPa)	EN ISO 527-1/3/4	17 (16)	17 (16)	17 (16)	17 (16)	17 (16)	17 (16)
TENSILE STRENGTH AT BREAK (MPa)	EN ISO 527-1/3/4	32 (26)	32 (26)	32 (26)	32 (26)	32 (26)	32 (26)
ELONGATION AT YIELD (%)	EN ISO 527-1/3/4*	11 (10)	11 (10)	11 (10)	11 (10)	11 (10)	11 (10)
ELONGATION AT BREAK(%)	EN ISO 527-1/3/4*	800 (700)	800 (700)	800 (700)	800 (700)	800 (700)	800 (700)
STATIC PUNCTURE (kN)	EN ISO 12236	1.7 (1.53)	2.5 (2.25)	3.0 (2.70)	4.5 (4.05)	6.0 (5.04)	7.2 (6.48)
PUNCTURE RESISTANCE (N)	ASTM D 4833	210 (180)	320 (270)	420 (360)	580 (550)	750 (670)	900 (800)
TEAR RESISTANCE (N)	ISO 34-1b	80 (70)	100 (90)	145 (130)	210 (200)	300 (280)	340 (300)
OXIDATIVE INDUCTION TIME (min)	ASTM D 3895	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100	≥ 100
ESCR (hr)	ASTM D 5397	n/a	n/a	≥ 400	≥ 400	≥ 400	≥ 400
WATER TIGHTNESS (m ³ /(m ² /d)	EN 14150	<10 ⁻⁶	<10 ⁻⁶	<10 ⁻⁶	<10 ⁻⁶	<10 ⁻⁶	<10 ⁻⁶
GAS TIGHTNESS (mol/(m ² s)	ASTM D 1434	82 *10 ⁻⁹	55 *10 ⁻⁹	40 *10 ⁻⁹	27 *10 ⁻⁹	15 *10 ⁻⁹	11.5 *10 ⁻⁹

All values-unless otherwise noted-are nominal values.Values in brackets are minimum values within the 95% confidence interval

*Tensile properties : 100mm / min / 50mm Gauge Length



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