

HDPE Roll Stock

18 Oct 2010		HDPE Minimum Material Properties				
Style	ASTM	HDPE 40 Smooth	HDPE 60 Smooth	HDPE 80 Smooth	HDPE 60 Textured	HDPE 80 Textured
Nominal Thickness	D5199	40 mil 1.0 mm	60 mil 1.5 mm	80 mil 2.0 mm	57 mil 1.45 mm	76 mil 1.90 mm
Density (Untextured)	D792	0.94	0.94	0.94	0.94	0.94
Tensile Strength Modified Type IV Die	D638 Stress at Yield	84 ppi 15 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m
	Stress @ Break	152 ppi 27 kN/m	228 ppi 40 kN/m	304 ppi 53 kN/m	90 ppi 16 kN/m	120 ppi 21 kN/m
	Strain @ Yield 33 mm Guage	12%	12%	12%	12%	12%
	Strain @ Break 50 mm Guage	700%	700%	700%	100%	100%
Tear Resistance	D1004	28 lbs 125 N	42 lbs 187 N	56 lbs 249 N	42 lbs 187 N	56 lbs 249 N
Dimensional Stability	D1204 (Max)	± 2%	± 2%	± 2%	± 2%	± 2%
Stress Cracking	D5397	300 Hours	300 Hours	300 Hours	300 Hours	300 Hours
Puncture Resistance	D4833	72 lbs 320 N	108 lbs 480 N	144 lbs 640 N	90 lbs 400 N	120 lbs 534 N
Black Content	D1603	2.0 - 3.0%	2.0 - 3.0%	2.0 - 3.0%	2.0 - 3.0%	2.0 - 3.0%
Black Dispersion	D5596	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2	CAT 1 or 2

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