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J-DRain Product Specification Chart

Property	ASTM TEST METHOD	UNITS	200/220	400/420	400/420 XL	700 / 720	780	990	300	302	1000	GRS		
Core Type			DIMPLE	DIMPLE	DIMPLE	DIMPLE	DIMPLE	DIMPLE	GEONET	GEONET	GEONET	DIMPLE		
Core Material			PP	PP	PP	PP	PP	PP	PE	PE	PE	PS³		
Thickness	D-1777	inches (mm)	0.4 (10.16)	0.4 (10.16)	0.4 (10.16)	0.4 (10.16)	0.4 (10.16)	0.4 (10.16)	0.25 (6.35)	0.25 (6.35)	0.25 (6.35)	1 (25.4)		
Compressive Strength	D-1621	psf (kNm ²)	11,000 (527)	15,000 (718)	16,500 (790)	21,000 (1,005)	21,000 (1,005)	30,000 (1,436)	40,000 (1,915)	40,000 (1,915)	40,000 (1,915)	9,500 (455)		
Flow Rate ¹ (per unit width)	D-4716	gal/min/ft (L/min/m)	18 (223)	21 (261)	21 (261)	23 (286)	23 (286)	24 (298)	8.5 (106)	8.5 (106)	8.5 (106)	30 ² (372)		
Geotextile Type			NW (one side)	NW (one side)	NW (one side)	W (one side)	NW (one side)	W (one side)	NW (one side)	NW (two sides)	NW (two sides 4oz / 6oz)		NW	ROOT RESISTANT EARTHTONE BARRIER
Geotextile Material			PP	PP	PP	PP	PP	PP	PP	PP	PP		PP	PP
Grab Tensile Strength	D-4632	lbs. (kN)	100 (.45)	100 (.45)	160 (.71)	MD 370 (1.65) CD 250 (1.11)	230 (1.02)	MD 370 (1.65) CD 250 (1.11)	100 (.45)	100 (.45)	100 (.45)	160 (.71)	100 (.45)	MD 54.2 CD 47
Grab Tensile Elongation	D-4632	%	60	60	50	MD 16 CD 15	50	MD 16 CD 15	60	60	60	50	60	MD 54 CD 78
Trapezoidal Tear	D-4533	lbs. (kN)	45 (.20)	45 (.20)	65 (.29)	MD 100 (.45) CD 60 (.27)	85 (.38)	MD 100 (.45) CD 60 (.27)	45 (.20)	45 (.20)	45 (.20)	65 (.29)	45 (.20)	MD 26.2 CD 19.9
Mullen Burst	D-3786	psi (kPa)	210 (1,447)	210 (1,447)	315 (2,168)	450 (3,097)	400 (2,753)	450 (3,097)	210 (1,447)	210 (1,447)	210 (1,447)	315 (2,168)	210 (1,447)	
Puncture Strength	D-4833	lbs. (kN)	65 (.30)	65 (.30)	95 (.42)	120 (.53)	130 (.58)	120 (.53)	65 (.30)	65 (.30)	65 (.30)	95 (.42)	65 (.30)	
Apparent Opening Size	D-4751	U.S. Sieve (mm)	70 (.212)	70 (.212)	70 (.212)	70 (.212)	100 (.150)	70 (.212)	70 (.212)	70 (.212)	70 (.212)	70 (.212)	70 (.212)	
Permittivity	D-4491	sec - 1	1.9	1.9	1.5	0.28	1.36	0.28	1.9	1.9	1.9	1.5	1.9	
Permeability	D-4491	cm/sec	0.21	0.21	0.25	0.01	0.31	0.01	0.21	0.21	0.21	0.25	0.21	
Flow Rate	D-4491	gal/min/ft ² (l/min/m ²)	140 (5,740)	140 (5,740)	110 (4,480)	18 (733)	100 (4,073)	18 (733)	140 (5,704)	140 (5,704)	140 (5,704)	110 (4,480)	140 (5,704)	
UV Resistance (@ 500 hours)	D-4355	% strength retained	70	70	80	90	80	90	70	70	70	80	70	
Roll Length		feet	50	50	50	50	50	50	75	75	50		50	
Roll Width		feet	4 6.5 8.5	4 6.5 8.5	4 6.5 8.5	4 6.5 8.5	4 6.5 8.5	4 6.5 8.5	4 7	4 7	4		4	

¹ Tested @ 3600 psf and a Hydraulic Gradient = 1 ³ 100% Post Industrial Regrind

² Tested @ 3600 psf and a Hydraulic Gradient = .1

LEGEND: PP = POLYPROPYLENE / PE = POLYETHYLENE / PS = POLYSTYRENE
W = WOVEN / NW = NONWOVEN