

ADEKA A-30 LEAKAGE TEST

PVC SHEETS NO ADEKA SEALANT

PROJECT NO.: L01116-01
 LAB I.D. NO.: L01116-01-02
 MATERIAL: 9000 / 9900
 JOINT CONDITION: TENSION

PANEL WIDTH, w-in= 24
 WALL THICKNESS, t-in= 0.36
 TEST SPEC. LENGTH, L-in= 10.00

LEAK TEST DATA								
Pressure Head h,psi	Pressure Head ft of Water	Flow Volume q, ml	Col. Time t,sec	Flow Rate ml/s	Flow Rate per Meter of Joint ml/s/m	Hydraulic Gradient i	Transmissivity m ² /s	"Equivalent" Permeability* cm/s
2.8	6.47	160	60	2.7	10.5	215	4.87E-08	8.00E-06
5.1	11.78	300	60	5.0	19.7	392	5.02E-08	8.23E-06
9	20.79	500	60	8.3	32.8	692	4.74E-08	7.77E-06
13.7	31.64	770	60	12.8	50.5	1054	4.79E-08	7.86E-06

*Equivalent Permeability of the wall section assuming that leakage is distributed uniformly across the panel width and the thickness for head loss is equal to the wall thickness.

NOTE FLOW RATE AND FLOW VOLUME WITHOUT ADEKA SEALANT

ADEKA A-30 LEAKAGE TEST

PVC SHEETS WITH ADEKA A-30 SEALANT

PROJECT: LEAKAGE RATE TESTING

PROJECT NO.: L01116-04

LAB I.D. NO.: L01116-04-01

MATERIAL: 9000 / 9900

JOINT SEALANT: ADEKA A-30

PANEL WIDTH, w-in= 24

WALL THICKNESS, t-in= 0.28

TEST SPEC. LENGTH, L-in= 10

Elapsed Time	LEAK TEST DATA									
	Pressure Head h,psi	Pressure Head ft of Water	Flow Volume q, ml*	Coll. Time t,sec	Flow Rate m/s	Flow Rate per Meter of Joint m/s/m	Hydraulic Gradient	Transmissivity m ² /s	"Equivalent" Permeability*	
2	5.1	11.78	<1	23000	0.0	0.0	504	3.39E-13	<5.6E-11	
2	13.7	31.64	<1	7200	0.0	0.0	1355	4.04E-13	<6.6E-11	

* A unit of 1ml is arbitrarily used as a "detection limit" for the purposes of calculating a permeability value.

NOTE FLOW RATE = 0.0 AND FLOW VOLUME < 1

HYDRAULIC CONDUCTIVITY = 0