



Three Component Variable Hardness Polyurethane System

(HARDNESS: 10 - 95 Shore A)

TRIATHANE™ 3 - PARTS A/B/C

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
COMPONENTS:	<u>MIX RATIO (By Weight)</u>																	
TRIATHANE™ 3 - PART A (Curative-1)	80.00	77.42	73.79	70.44	67.48	64.65	61.57	58.03	52.61	49.16	45.69	41.14	35.18	29.63	23.03	14.79	4.67	0.00
TRIATHANE™ 3 - PART B (Curative-2)	0.00	1.08	2.62	4.04	5.31	6.51	7.82	9.33	11.63	13.10	14.58	16.52	19.05	21.42	24.23	27.73	32.04	33.33
TRIATHANE™ 3 - PART C (Resin)	20.00	21.51	23.59	25.51	27.21	28.84	30.61	32.64	35.75	37.74	39.73	42.34	45.76	48.95	52.74	57.48	63.29	66.67
	<u>CURE PROFILE</u>																	
Pot Life* (Minutes):	49.0	46.0	36.0	28.0	23.0	20.0	17.0	15.0	12.0	11.0	10.0	9.0	8.0	7.0	6.0	5.5	5.0	4.5
Gel Time (Minutes)** (22°C):	86.0	78.0	56.0	41.0	32.0	27.0	23.0	20.0	16.0	14.0	13.0	12.0	10.0	9.0	8.0	7.0	6.5	6.0
Machine Mixed Samples:	(Cured 16 hrs. @ 60 C.)			<u>PHYSICAL PROPERTIES</u>														
Hardness (Shore)	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
100% Modulus (psi)	43	46	69	87	114	157	177	253	291	417	379	482	486	588	670	675	783	935
200% Modulus (psi)	56	60	91	117	153	210	235	333	380	499	496	620	634	640	863	888	1046	1221
300% Modulus (psi)	80	86	134	173	224	305	337	470	529	643	657	851	855	1015	1148	1184	1411	1590
UTS (psi)	181	216	286	469	531	627	597	741	827	952	1340	1450	1752	1832	2200	2730	3250	3569
Ultimate Elongation (%)	567	598	531	658	608	564	519	469	438	419	544	404	582	535	509	674	634	564
DIE 'C' Tear (pli.)	29	34	44	61	80	93	121	138	154	183	225	235	277	279	340	350	434	462
Split tear (pli.)	6	7	10	14	16	19	22	24	24	31	34	40	60	71	85	102	119	131
Bayshore Rebound (%)	40	40	42	46	48	48	55	50	53	52	52	51	54	49	52	52	47	50

* Pot Life: Time to reach 100 poise (Brookfield Viscosity).

**Gel time: (200gm. mix @22°C)

Feb-19