

WESTEC TPE-R WATERSTOP MATERIAL

ASTM D-471 TEST METHOD FOR RUBBER PROPERTIES-EFFECT OF LIQUIDS
EFFECT AFTER 166 HOURS OF FULL IMMERSION AT STATED TEMPERATURE

FLUID	TEMP C/F	ULT. ELONGATION % RETENTION	ULT. TENSILE % RETENTION	100% MODULUS % RETENTION	HARDNESS CHANGE SHORE A UNITS	WEIGHT CHANGE %
ACETIC ACID	23/73.4	103	102	102	-2	3.2
ACRYLONITRILE	23/73.4	102	104	110	-4	0.9
AMMONIA LIQUID	30/86	83	95	107	0	0.6
ANILINE	23/73.4	99	94	99	-2	1.5
ANTIFREEZE (50 % ETHYLENE GLYCOL / 50 % WATER	100/212 125/257	88 84	96 99	90 96	5 2	2.0 3.1
ASTM #1 OIL	100/212	88	91	99	1	13.5
ASTM #2 OIL	100/212	82	86	93	-2	27.1
ASTM #3 OIL	100/212	72	75	80	-6	41.6
AUTO TRANSMISSTION FLUID	70/158	72	74	91	-3	18.9
	100/212	70	76	91	-6	28.9
	125/257	63	77	82	-11	43.4
BROMOBENZENE	23/73.4	94	91	88	-3	41.9
BUTANOL	23/73.4	99	98	100	1	-3.2
BUTYLACETATE	23/73.4	95	92	80	5	0.3
CHROMIC ACID	23/73.4	112	93	165?	4	0.7
CREOSOTE	23/73.4	96	89	92	-1	12.2
CYCLOHEXANE	23/73.4	63	58	62	-6	45.3
DIESEL FUEL	70/158	78	71	78	-14	39.6
DIETHYL ETHER	23/73.4	98	97	95	-7	-1.8
DIMETHYL PHTHALATE	23/73.4	93	90	80	6	-9.7
DIMETHYLFORMAMIDE	23/73.4	96	105	100	6	0.0
DIOCTYLPHTHALATE	23/73.4	101	97	103	-1	-0.2
DIOXANE, 1.4	23/73.4	98	94	95	-3	1.1
ETHANOL,95%	23/73.4	106	98	99	0	-1.7
ETHYL ACETATE	23/73.4	99	97	94	1	-2.2

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ETHYLENE CHLORIDE	23/73.4	110	106	86	3	5.9
ETHYLENE DICHLORIDE	23/73.4	94	91	92	-3	7.7
ETHYLENE GLYCOL	23/73.4	106	104	99	1	-7.4
MONOMETHYL ETHER						
ETHYLHEXANOL	23/73.4	91	90	92	4	-0.5
GLYCEROL	23/73.4	102	101	103	-2	0.2
HEXANE - N	23/73.4	90	92	94	-10	5.7
HYDRAULIC BRAKE FLUID	23/73.4	95	102	95	5	-1.8
HYDROCHLORIC ACID 10%	23/73.4	88	87	85	6	0.3
ISOPROPYL ALCOHOL	23/73.4	103	100	100	3	-3.0
JET FUEL - JP8	23/73.4	112	94	83	1.1	24.7
KEROSENE	23/73.4	88	89	103	-15	24.0
LITHIUM GREASE	23/73.4	93	98	92	5	3.5
METHANOL	23/73.4	94	100	99	-1	0.3
METHYL ISOBUTYL KETONE	23/73.4	102	96	94	0	-4.6
METHYL METHACRYLATE	23/73.4	107	105	94	2	-12.0
METHYLENE CHLORIDE*	23/73.4	101	96	91	-2	7.4
METHYL ETHYL KETONE	23/73.4	95	94	79	6	-4.8
NITRIC ACID CONCENTRATED 70%	23/73.4	115	113	91	-4	6.4
NITROBENZENE	23/73.4	100	98	102	-2	-1.5
NITROERHANE	23/73.4	93	91	87	5	-1.0
PENTANE	23/73.4	135	155	199	3	-15.0
PERCHLOROETHYLENE	23/73.4	77	73	76	-21	98.9
PEROXIDE	23/73.4	105	110	166?	0	0.2
PH 11 IONIZED WATER	23/73.4	9	112	123	2	0.2
PHENOL	23/73.4	125	114	130	2	.2
PIPERIDINE	23/73.4	87	85	93	-9	12.8

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POTASSIUM HYDROXIDE 10%	23/73.4	101	101	106	-1	0.1
POWER STEERING FLUID	100/212	74	79	89	-4	35.4
	125/257	54	59	68	-12	52.2
PROPANOL-1	23/73.4	93	98	100	6	-4.3
PYDRAUL	100/212	93	96	103	2	10.9
PYRIDINE	23/73.4	98	105	94	6	-1.9
REF FUEL A (ISOOCTANE)	23/73.4	86	85	82	-1	13.2
REF FUEL B (70 ISOOCTANE/ 30 TOLUENE)	23/73.4	82	84	81	-7	24.5
REF FUEL C (50 ISOOCTANE/ 50 TOLUENE)	23/73.4	67	68	75	-4	29.4
SEA WATER	23/73.4	98	107	99	4	0.3
SKYDROL	100/212	95	100	99	6	-5.0
SODIUM CHLORIDE 15%	23/73.4	93	90	94	5	0.7
SODIUM HYDROXIDE 10%	23/73.4	95	102	96	6	0
SODIUM HYDROXIDE 50%	23/73.4	101	107	104	-4	-0.1
SULFURIC ACID 10%	23/73.4	96	103	103	6	0.1
SULFURIC ACID 98%	23/73.4	77	82	108	-1	2.1
SUNVIS 706	100/212	79	82	86	-5	26.3
TRICHLOROETHYLENE	23/73.4	107	105	85	-13	97.2
TURPENTINE	23/73.4	80	75	85	-10	34.8
UCON 50HB5100	70/158	96	110	106	6	-9.6
UCON CC732	70/158	93	96	100	4	1.6
WATER	100/212	84	94	106	4	2.9
XYLENE	23/73.4	84	85	90	-11	24.9
ZINC CHLORIDE 10%	23/73.4	89	87	83	5	0.0

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