

Polyurethane System	Andur® 7 APLM	Andur® 8 APLM	Andur® 8 APLM	Andur® 9 APFLM
Prepolymer				
Curative (ratio by weight %)	Curene® 93	Curene® 49	Curene® 93	Curene® 49
Recommended Plasticizer % Plasticizer †	Andurflex 9-88SG 15%	Andurflex 9-88SG 25%	Andurflex 9-88SG 25%	Andurflex 9-88SG 25%
Processing Characteristics				
Stoichiometry	1.1	1.05	1.05	1.1
Recommended Catalyst	Dabco® T-12	Dabco® T-12	Dabco® T-12	Dabco® T-12
REFER TO INDIVIDUAL PREPOLYMER DATASHEETS FOR CASTING GUIDELINES. TEMPERATURE ADJUSTMENTS MAY BE AVAILABLE OR NECESSARY WHEN ADDING PLASTICIZERS.				
Elastomer Properties				
Shore Hardness	38-44A	38-42A	38-44A	40-45A
Tensile, psi	2450	1880	1240	1130
100% Modulus, psi	140	145	135	165
300% Modulus, psi	245	305	275	395
Elongation, %	670	525	550	440
Die C Tear (D624), pli	100	95	80	105
Split Tear (D1938), pli: AVG.	16	8	7	8
D395 Comp. Set, % (22 hrs @ 70°C)	3	0	8	0
D2632 Rebound, %	60	54	50	32
Attributes / Comments	Good solvent resistance; improved tear; ultra low compression set	Good solvent resistance; ultra low compression set	Good solvent resistance; low compression set	Good solvent resistance; ultra low compression set
Disadvantages	Poor water/acid/base resistance; may be susceptible to microbes	Poor water/acid/base resistance; may be susceptible to microbes; low tear strength	Poor water/acid/base resistance; may be susceptible to microbes; low tear strength	Poor water/acid/base resistance; may be susceptible to microbes
FDA Approvable Composition				

EW = Equivalent Weight * Triethanolamine (TEA) ** Dioctyl Adipate (DOA) ***Trimethylolpropane (TMP) † % Plasticizer based on prepolymer weight

††† This system is approvable for FDA applications involving † wet food contact per 21 CFR 177.2600 & †† dry food contact per 21 CFR 177.1680

CURENE and ANDUR are registered trademarks of Anderson Development Company. DABCO is a registered trademark of Evonik. The information contained in this bulletin we believe to be accurate, but no warranty is given nor is anything to be construed as a recommendation to infringe upon any existing patent. Since conditions of use are beyond our control, all risks of use are assumed by the user.

**Last Revised:
2/3/2020**

Polyurethane System	MDI - PTMEG	TDI - PTMEG			TDI - PPG Ether	
Prepolymer	Andur® M 75 AP	Andur® 80 APLF	Andur® 80-5 AP	Andur® 85 APLF	Andur® 8000 AP	Andur® 8000 AP
Curative (ratio by weight %)	Curene® PTMG 1000/ TEA* (96/4)	Curene® 100 XPF	Curene® 100 XPF	Curene® 100 XPF	Curene® 185	Curene® 185
Recommended Plasticizer	Andurflex DOA**	Andurflex 9-88SG	Andurflex 9-88SG	Andurflex 9-88SG	Andurflex DOA**	
% Plasticizer †	20%	10-15%	30%	20%	15%	
Processing Characteristics						
Stoichiometry	0.97	1.1	1.0 -1.05	1.05	0.95	1.05
Recommended Catalyst				Oleic Acid		
REFER TO INDIVIDUAL PREPOLYMER DATASHEETS FOR CASTING GUIDELINES. TEMPERATURE ADJUSTMENTS MAY BE AVAILABLE OR NECESSARY WHEN ADDING PLASTICIZERS.						
Elastomer Properties						
Shore Hardness	40-44A	38-42A	37-44A	38-45A	36-42A	40-50A
Tensile, psi	1090	1750	1700	1040	360	470
100% Modulus, psi	160	115	145	140	150	120
300% Modulus, psi	280	180	235	250	250	260
Elongation, %	530	750	630	555	295	445
Die C Tear (D624), pli	95	105	100	100	30	40
Split Tear (D1938), pli: AVG.	12	25	19	15	7	12
D395 Comp. Set, % (22 hrs @ 70°C)	8	11	16	10	1	4
D2632 Rebound, %	74	63	63	65	33	15
Attributes / Comments	Wet & dry food contact approved; good water/acid/base resistance; low compression set; high rebound; curative EW ~362	Good water/acid/base resistance; fairly tough with good dynamics; low compression set	Good water/acid/base resistance; fairly tough with good dynamics; low compression set	Good water/acid/base resistance; fairly tough with good dynamics; low compression set	Easy to process; good water/acid/base resistance; ultra low compression set	Easy to process; good water/acid/base resistance; ultra low compression set; low rebound (good energy absorber)
Disadvantages	Moisture sensitive during processing; poor solvent resistance; low tear strength	Poor solvent resistance	Poor solvent resistance	Poor solvent resistance	Poor solvent resistance; low tensile & tear strength	Poor solvent resistance; low tensile & tear strength
FDA Approvable Composition	Yes; Wet [†] & Dry ^{††}					

EW = Equivalent Weight * Triethanolamine (TEA) ** Dioctyl Adipate (DOA) ***Trimethylolpropane (TMP) † % Plasticizer based on prepolymer weight

††† This system is approvable for FDA applications involving †wet food contact per 21 CFR 177.2600 & ††dry food contact per 21 CFR 177.1680

CURENE and ANDUR registered trademarks of Anderson Development Company. DABCO is a registered trademark of Evonik. The information contained in this bulletin we believe to be accurate, but no warranty is given nor is anything to be construed as a recommendation to infringe upon any existing patent. Since conditions of use are beyond our control, all risks of use are assumed by the user.

**Last Revised:
2/3/2020**