ANDERSON DEVELOPMENT COMPANY

30A Specialty Systems

TDI and MDI

TECHNICAL DATA

Polyurethane System	TDI - Ester		TDI - Polybutadiene	TDI - PPG Ether	TDI - PTMEG Ether	MDI - PTMEG Ether
Prepolymer	**Andur® 7 APLM**	**Andur® 8 APLF**	**Andur® XP-375**	**AndurGel OO 50**	**Andur® 80 APLF**	**Andur® M 75 AP**
Curative (ratio by weight %)	Curene® 93	Curene® 49	Curene® 107	1.28:1 A:B	Curene® 100 XPF	Curene® PTMG 1000/ TEA* (96/4)
Recommended Plasticizer	Andurflex 9-88SG	Andurflex 9-88SG	Paraflex® HT-10		Andurflex 9-88SG	Andurflex DOA**
% Plasticizer †	25%	35%	122%		20%	30%
Processing Characteristics						
Stoichiometry	1.1	1.05	0.95	~0.95	1.05	0.97
Recommended Catalyst	Andurcat 33LV or Dabco® T-12				Andurcat 33LV	
REFER TO INDIVIDUAL PREPOLYMER DATASHEETS FOR CASTING GUIDELINES. TEMPERATURE ADJUSTMENTS MAY BE AVAILABLE OR NECESSARY WHEN ADDING PLASTICIZERS.						
Elastomer Properties						
Shore Hardness	33A	31A	30-35A	27A (78 OO)	30A	29A
Tensile, psi	2300	2250	660	220	900	800
100% Modulus, psi	100	115	155	90	95	100
300% Modulus, psi	180	250	255		160	165
Elongation, %	740	500	600	350	690	615
Die C Tear (D624), pli	85	80	45	30	65	70
Split Tear (D1938), pli: AVG.	19	7	6	3	12	14
D395 Comp. Set, % (22 hrs @ 70˚C)	3	3	30 (5 @ 25C)	0	9	14
D2632 Rebound, %	57	45	60	55	55	66
Attributes / Comments	Good solvent resistance; ultra low compresssion set	Good solvent resistance; ultra low compresssion set	Extremely excellent water/acid/base/bleach resistance	Room temperature cure; easy to process; low compression set	Good water/acid/base resistance; low compression set	Wet & dry food contact approved; good water/acid/base resistance; low compression set; high rebound
Disadvantages	Poor water/acid/base resistance; may be susceptable to microbes	Poor water/acid/base resistance; may be susceptable to microbes; low tear strength	Poor solvent resistance; poor UV resistance; low tensile and tear strength	Poor solvent resistance; low tensile & tear strength	Poor solvent resistance; low tear strength	Poor solvent resistance; low tear strength
FDA Approvable Composition						Yes; Wet‡ & Dry‡‡

EW = Equivilent Weight * Triethanolamine (TEA) ** Dioctyl Adipate (DOA) † % 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

Last Revised: 8/24/2021