

PLASTICIZER SELECTION GUIDE FOR ELASTOMERS

APPLICATIONS	ELASTOMER	IMPORTANT PROPERTIES				
Belts - Conveyor Belts - Timing Hose - Transmission Hose - Hydraulic (tube) Hose - Euel (tube) Hose - Courside Covers Hose - Outside Covers Blankers (ink side) Transmission Seals Wire & Cable Nitrile	AEM / ACM CR CPE HNVBR ECO Oil Resistance	Migration Resistance Chemical Resistance Efficiency Low Temperature Flex Fuel Resistance Viscosity @ 25°C, cPs				

ADDITIONAL LINKS:

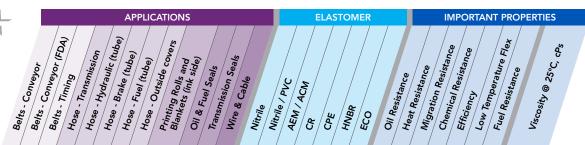
Plasticizers for Elastomers Brochure Automotive Brochure TP-Series Line Card TegMeR® 812 Technical Paper

MONOMERICS																										ĺ			
PRODUCT NAME	CHEMISTRY																									1		ADVANTAGES	COMMENTS
TP-95®	Adipate				•	•	•	•	•	•			•	•				•	•	2	3	•	2	2 2	2 3	3	<100	Low volatility general purpose plasticizer effective over a broad temperature range. Provides excellent efficiency.	
TP-90B®	Formal					•	•	•					•	•		•		•						1 1	I	ı	<100	Highly compatible plasticizer. Best low temperature flexibility.	Volatile, but very efficient. Some anti-fungal properties.
TP-759®	Unique		•	•				•			•				•					•	2	3	•	•	•		<35	High molecular weight, high polarity. Low volatility for high temp applications. Retains low temp flex when subjected to high heat and hydrocarbons. Compounds retain their properties after heat aging.	
TegMeR [®] 812	Unique		•	•				•			•				•			•		•	1	2	•	•	•	l	<100	Ester plasticizer designed for high polarity polymers provides widest range of high and low temp properties in AEM/ACM. Best aged low temp properties in HNBR.	
Plasthall® 7050	Unique				•	•		•		•		•		•				•	•	1	3	1	1	•	• 1		<100	Combines low volatility with high efficiency, as well as low temperature properties. Extremely good extraction resistance against oils and solvents.	Limited use with low ACN Nitrile. Poor water resistance.
Plasthall® 4141	Unique	•			•	•				•			•	•		•				3	•			•	•	١	<100	Accepted under FDA CFR 177.2600. Good un-aged and heat-aged LT, #3 oil resistance. Good for low ACN Nitrile.	
Plasthall® 226	Adipate				•	•	•	•	•	•			ŀ	•			,	•	•	2	3	•	2	2 2	2 3	3	<100	Glycol ether adipate that is an effective plasticizer over a broad temperature range. Provides excellent efficiency.	
Plasthall® 209	Adipate				•	•	•	•	•	•			•	•				•	•	3			3	• 3	3 2	2	<100	Environmentally friendly (no formaldehyde) alternative to TP-908°. Excellent low temp properties in NBR @ -42°C.	
Plasthall® 100	TOFA				•	•	•	•								•				•	•			1 •	•		<100	Monoester iso-octyl tallate with excellent compatibility in CR. Offers good transmission fluid and water resistance and very good low temperature performance.	

- 1 first choice
- 2 second choice
- 3 third choice



PLASTICIZER SELECTION GUIDE FOR ELASTOMERS



ADDITIONAL LINKS:

Plasticizers for Elastomers Brochure Automotive Brochure TP-Series Line Card TegMeR® 812 Technical Paper

			/	/	/	/	/	/	/ ,	/	/	/ .			/	/	/	/ /	/	/ /		/	/	/	/ .	/	/ /			
POLYMERICS																														
PRODUCT NAME	CHEMISTRY																												ADVANTAGES	COMMENTS
Paraplex® G-50	Adipate	•	•			•		•	•		•			•	•					•	•	•			1	2	•	2,000- 2,900	Medium MW plasticizer. Good permanence and processibility in NBR. Excellent extraction resistance to oils/hydrocarbons.	
Paraplex® G-30	Adipate		•			•	•						•	•	•				•									1,200 cSt	Low MW plasticizer. Good permanence with oils and hydrocarbons.	
Paraplex® G-25	Sebacate	•	•	•	•	•	•	•	•	•	•		•		•	•			•		1	1	1	1			1	10,000 @ 80°C, cSt	High MW plasticizer. Permanent and compatible. Excellent extraction resistance to gasoline, oils and soapy water. Outstanding retention of physical properties after prolonged service at elevated temperatures.	Low/no migration into plastics, rubber.
Paraplex® A-8000	Adipate	•	•		•	•	•	•	•	•	•	•	•		•	•		•	•	•		•			1	1	•	1,000	Low MW ester. Best low temperature performance versus other polymerics. Better permanence, volatility and migration resistance than monomerics. Excellent general performance polymeric plasticizer.	Not for high temperature applications.
Paraplex® A-8200	Adipate	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	3	3	3	3	2	3	3	720 @ 80°C, cSt	Medium MW ester. Permanence in all types of environments. Excellent extraction resistance to both polar and non-polar mediums.	
Paraplex® A-8600	Adipate	•	•	•	•	•	•	•	•	•	•	•	•		•	•			•	•	2	2	2	2	3	•	2	900 @ 80°C, cSt	Medium MW ester. Excellent permanence with superior humidity and extraction resistance as well as migration resistance to polar and nonpolar fluids.	

- 1 first choice
- 2 second choice
- 3 third choice