

# Adiprene® M 3900

Polyurethane (Polycarbonate, MDI)

Chemtura

## Message:

ADIPRENE M 3900 is a polycarbonate - based, MDI-terminated liquid urethane prepolymer. This new prepolymer is unique in its resistance to heat aging and hydrolysis. When cured with 1,4 Butanediol, this member of the Adiprene family produces high quality vulcanizates that are 96 Shore A in hardness. The features of ADIPRENE M 3900 include:

- High Tear Strength
- Excellent Abrasion resistance
- Good Solvent Resistance
- Good Hydrolysis Resistance

Adiprene M3900 at processing temperature has a working life suitable for both machine and hand-batching procedures.

General Information			
Features	Good Abrasion Resistance		
	Good Heat Aging Resistance		
	Good Tear Strength		
	Hydrolysis Resistant		
	Solvent Resistant		
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	96 to 97	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	1.45	MPa	
10% Strain	4.41	MPa	
15% Strain	7.03	MPa	
20% Strain	9.45	MPa	
25% Strain	13.1	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	15.3	MPa	ASTM D412
Tensile Strength	38.7	MPa	ASTM D412
Tensile Elongation (Break)	260	%	ASTM D412
Tear Strength			
-- <sup>1</sup>	111	kN/m	ASTM D624
Split	23	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	37	%	ASTM D395B
Bayshore Resilience	37	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	1.5	min	
Post Cure Time (115°C)	16	hr	

Uncured Properties	Nominal Value	Unit
Curing Time (115°C)	1.0	hr
NOTE		
1.	Die C	

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