

Adiprene® L 700

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE L 700 is a TDI polyether-based liquid urethane prepolymer which is readily processable by conventional hand and machine mixing techniques. ADIPRENE L 700 produces high quality elastomers in the 90-94 A durometer (42-46 D durometer) hardness range when cured with 4,4'-methylene-bis (2-chloroaniline) or Chemtura's CAYTUR® 21 urethane curative. These tough, highly resilient elastomers have many unique features:

- Excellent low-temperature flexibility
- Excellent abrasion resistance
- Good hydrolytic stability
- Good compression set resistance

These properties suggest the use of ADIPRENE L 700 in applications such as wheels, rolls, or spraying.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Hydrolytically Stable		
	Low Temperature Flexibility		
	Resilient		
Uses	Wheels		
Forms	Liquid		
Processing Method	Casting		
	Compression Molding		
	Spraying		
	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	9.65	MPa	
300% Strain	21.4	MPa	
Tensile Strength	37.2	MPa	ASTM D412
Tear Strength (Split)	19	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	31	%	ASTM D395B
Bayshore Resilience	40	%	ASTM D2632
Clash-Berg Modulus			ASTM D1043
-57°C	296	MPa	
-40°C	117	MPa	


-18°C	40.7	MPa
24°C	26.2	MPa
Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 17	
Resin	Mix Ratio by Weight: 100	
Pot Life	3.0	min
Post Cure Time (70°C)	16	hr
Additional Information	Nominal Value	Unit
Abrasion Index - NBS	230	
Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	1.0	hr

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