

# Adiprene® LW 570

Polyurethane (Polyether, Aliphatic)

Chemtura

## Message:

ADIPRENE LW 570 is a polyether-based liquid casting urethane polymer, prepared with an aliphatic diisocyanate, that yields tough, high quality elastomers in the 75 durometer D hardness range when cured with methylene dianiline. It is readily processable by conventional hand and machine mixing techniques.

General Information			
Features	Aliphatic		
	Good Toughness		
	High Impact Resistance		
	Hydrolytically Stable		
Forms	Liquid		
Processing Method	Casting		
	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72 to 78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	517 to 862	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles)	8.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	25.9 to 33.1	MPa	ASTM D412
Tensile Strength	37.9 to 55.2	MPa	ASTM D412
Tensile Elongation (Break)	150 to 220	%	ASTM D412
Tear Strength (Split)	18	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	14 to 22	%	ASTM D395B
Clash-Berg Modulus			ASTM D1043
-57°C	531	MPa	
-40°C	414	MPa	
-18°C	283	MPa	
4°C	193	MPa	
24°C	138	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	480 to 1000	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.0 to 97.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 17		
Resin	Mix Ratio by Weight: 100		
Pot Life	1.5	min	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	20	hr	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

