

Adiprene® LW 520

Polyurethane (Polyether, Aliphatic)

Chemtura

Message:

ADIPRENE LW 520 is a polyether-based liquid casting urethane polymer, prepared with an aliphatic diisocyanate, that yields tough, high quality elastomers in the 90 durometer A hardness range when cured with methylene dianiline. It is readily processable by conventional hand and machine mixing techniques.

General Information			
Features	Aliphatic		
	Good Toughness		
	Hydrolytically Stable		
	Low Temperature Flexibility		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88 to 92		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.07 to 8.45	MPa	
300% Strain	19.3 to 25.9	MPa	
Tensile Strength	25.9 to 39.0	MPa	ASTM D412
Tensile Elongation (Break)	310 to 390	%	ASTM D412
Tear Strength (Split)	9.6	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	60 to 70	%	ASTM D395B
Bayshore Resilience	38 to 42	%	ASTM D2632
Clash-Berg Modulus			ASTM D1043
-57°C	110	MPa	
-40°C	58.6	MPa	
-18°C	24.1	MPa	
24°C	10.3	MPa	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 11		
Resin	Mix Ratio by Weight: 100		

Pot Life	4.0 to 6.0	min
Additional Information	Nominal Value	Unit
Abrasion Index - NBS	1100 to 1300	
Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	16	hr

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