

Adiprene® L 325

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE L 325 is a polyether-based, TDI terminated liquid urethane prepolymer that is readily processable by conventional hand and machine mixing techniques. When cured with 4,4'-methylene-bis(2-chloroaniline), this member of the ADIPRENE L family produces high quality vulcanizates in the 70-75 Shore D hardness range.

These tough, highly resilient elastomers have many unique features:

Excellent low-temperature flexibility

Excellent abrasion resistance

Good hydrolytic stability

Low compression set

ADIPRENE L 325 gives a longer working life when mixed with curatives than does ADIPRENE L 315, so it is more suitable for the preparation of large parts.

General Information	
Features	Good Abrasion Resistance
	Good Toughness
	Hydrolytically Stable
	Low Compression Set
	Low Temperature Flexibility
	Resilient
Forms	Liquid
Processing Method	Casting
	Compression Molding
	Vacuum Casting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	586	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	25.9	MPa	ASTM D412
Tensile Strength	60.7	MPa	ASTM D412
Tensile Elongation (Break)	260	%	ASTM D412
Tear Strength (Split)	20	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	10	%	ASTM D395A
Bayshore Resilience	58	%	ASTM D2632
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -70.0	°C	ASTM D746
Heat Deflection Temperature	145	°C	
Abrasion Index - NBS	425		
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 90		
Resin	Mix Ratio by Weight: 100		
Pot Life	2.5	min	
Post Cure Time (100°C)	16	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	1.0	hr	

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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



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