

# Vibrathane® 8522

Polyurethane (Polyester, MDI)

Chemtura

## Message:

VIBRATHANE 8522 is a polyester based, MDI terminated liquid urethane prepolymer that is readily processable by conventional hand and machine mixing techniques.

When cured with 1,4 - Butanediol, this member of the Vibrathane family produces high quality vulcanizates in the 89 Shore A range, characterized by:

- High Tear Strength
- Exceptional Dynamic Properties
- Low Compression Set

General Information			
Features	Good Tear Strength		
	Low Compression Set		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88 to 89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	1.45	MPa	
10% Strain	2.76	MPa	
15% Strain	4.00	MPa	
20% Strain	5.31	MPa	
25% Strain	6.76	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.69	MPa	
300% Strain	20.1	MPa	
Tensile Strength	40.7	MPa	ASTM D412
Tensile Elongation (Break)	390	%	ASTM D412
Tear Strength			
-- <sup>1</sup>	71.8	kN/m	ASTM D624
Split	17	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	25	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 7.7		
Resin	Mix Ratio by Weight: 100		

Pot Life	6.0	min
Post Cure Time (100°C)	16	hr
Uncured Properties	Nominal Value	Unit
Curing Time (115°C)	1.0	hr
NOTE		
1.	Die C	

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