

# Vibrathane® 8080

Polyurethane (Polyester, TDI)

Chemtura

## Message:

VIBRATHANE 8080 is a TDI-terminated polyester based prepolymer which yields an 80 Shore A hardness urethane when cured with 4,4' methylene-bis (orthochloroaniline), commonly called MBCA.

VIBRATHANE 8080 elastomers are characterized by:

- High tensile and tear strength
- Outstanding abrasion resistance
- Excellent heat, fuel, and solvent resistance
- Good low temperature and dynamic properties

General Information			
Features	Fuel Resistant		
	Good Abrasion Resistance		
	Good Tear Strength		
	High Heat Resistance		
	High Tensile Strength		
	Solvent Resistant		
Forms	Liquid		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	1.59	MPa	
10% Strain	2.21	MPa	
15% Strain	2.65	MPa	
20% Strain	3.45	MPa	
25% Strain	4.55	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	3.96	MPa	
300% Strain	6.83	MPa	
Tensile Strength	44.8	MPa	ASTM D412
Tensile Elongation (Break)	620	%	ASTM D412
Tear Strength			
-- 1	78.8	kN/m	ASTM D624
Split	19	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	26	%	ASTM D395B
Bayshore Resilience	30	%	ASTM D2632
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 9.0	
Resin	Mix Ratio by Weight: 100	
Pot Life	7.0 to 8.0	min
Post Cure Time		
24°C	340	hr
70°C	24	hr
100°C	8.0	hr
Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	0.50 to 0.75	hr
NOTE		
1.	Die C	

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