

# Vibrathane® 8010D

Polyurethane (Polyester, MDI)

Chemtura

## Message:

VIBRATHANE 8010D is 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 95 Shore A hardness range. These tough, high resilience elastomers are characterized by:

High Tear Strength

Good Dynamic Properties

Low Compression Set

Quick Demold

VIBRATHANE 8010D is low in viscosity with a working life suitable for hand batching and/or machine mixing. In addition, this versatile polymer can be easily compounded to lower durometer elastomers with excellent mechanical and abrasion resistant properties.

General Information			
Features	Good Tear Strength		
	Good Toughness		
	Low Compression Set		
	Low Viscosity		
	Resilient		
Forms	Liquid		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	12.7	MPa	
300% Strain	29.4	MPa	
Tensile Strength	34.5	MPa	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Tear Strength			
-- <sup>1</sup>	105	kN/m	ASTM D624
Split	35	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	35	%	ASTM D395B
Bayshore Resilience	30	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	4.0 to 5.0	min	
Demold Time (115°C)	1.0	min	
Post Cure Time (115°C)	16	hr	
NOTE			
1.	Die C		

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