

Vibrathane® B839

Polyurethane (Polyether, TDI)

Chemtura

Message:

VIBRATHANE B839 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 VIBRATHANE family produces high quality vulcanizates in the 97 Shore A hardness range.

These tough, high resilience elastomers are characterized by:

Excellent dynamic properties

Good abrasion resistance.

Low compression set

Good hydrolytic stability.

Suitable for use with non-MBCA diamines curatives

Typical applications for these high performance elastomers are wheels, linings, and wear resistant coatings.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Hydrolytically Stable		
	Low Compression Set		
	Resilient		
Uses	Coating Applications		
	Liners		
	Wheels		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	97		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	13.1	MPa	
300% Strain	29.0	MPa	
Tensile Strength	33.1	MPa	ASTM D412
Tensile Elongation (Break)	340	%	ASTM D412
Tear Strength			
-- 1	133	kN/m	ASTM D624
Split	30	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	29	%	ASTM D395B
Bayshore Resilience	44	%	ASTM D2632
Thermoset	Nominal Value	Unit	

Thermoset Components		
Hardener	Mix Ratio by Weight: 18	
Resin	Mix Ratio by Weight: 100	
Pot Life	3.0	min
Post Cure Time (100°C)	16	hr
Additional Information	Nominal Value	Unit
Abrasion Index - NBS	300	
Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	0.50	hr
NOTE		
1.	Die C	

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