

Vibrathane® B836

Polyurethane (Polyether, MDI)

Chemtura

Message:

VIBRATHANE B836 is a polyether-based diphenylmethane diisocyanate terminated liquid prepolymer which yields a 95A durometer urethane when cured with 1,4-Butanediol. VIBRATHANE B836 exhibits processing characteristics which are similar to VIBRATHANE B 821.

Vibrathane B836 is characterized by:

Excellent low temperature properties

High abrasion resistance

Outstanding hydrolytic stability

High Resilience

General Information			
Features	Good Abrasion Resistance		
	Hydrolytically Stable		
	Resilient		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	9.27	MPa	
300% Strain	18.2	MPa	
Tensile Strength	37.6	MPa	ASTM D412
Tensile Elongation (Break)	460	%	ASTM D412
Tear Strength			
-- ¹	123	kN/m	ASTM D624
Split	27	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	60	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 9.0		
Resin	Mix Ratio by Weight: 100		
Post Cure Time			
70°C	170	hr	
115°C	16	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	1.0	hr	

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