

Vibrathane® B844

Polyurethane (Polyether, TDI)

Chemtura

Message:

VIBRATHANE B844 is a medium performance, polyether-based TDI-terminated liquid urethane prepolymer that is readily processable by conventional hand and machine mixing techniques. When cured with 4'- Methylene-Bis [2-Chloroaniline], this member of the VIBRATHANE family produces vulcanizes with an 80 Shore A hardness. These elastomers have properties similar to, but somewhat lower than those of VIBRATHANE B 602. They are most often used in less demanding applications.

The polymer is characterized by good processability due to its:

Low Viscosity

Long Working Life

Liquid Working at Room Temperature

General Information			
Features	Good Processability		
	Low Viscosity		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	4.14	MPa	
300% Strain	6.89	MPa	
Tensile Strength	20.3	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength			
-- 1	52.5	kN/m	ASTM D624
Split	12	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	35	%	ASTM D395B
Bayshore Resilience	25	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Weight: 100		
Pot Life	15	min	
Post Cure Time (70°C)	16	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	1.0	hr	
NOTE			

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