

Vibrathane® B670

Polyurethane (Polyether, MDI)

Chemtura

Message:

VIBRATHANE B670 is a polyether-based MDI terminated prepolymer which yields a 53 Shore D urethane when cured with 1,4-butanediol. VIBRATHANE B670 is characterized by exceptionally low viscosity and outstanding processing characteristics.

Urethanes made from VIBRATHANE B670:

- Exhibit excellent low temperature properties
- High abrasion resistance
- Outstanding hydrolytic stability
- High tear strength

General Information			
Features	Good Abrasion Resistance		
	Good Processability		
	Good Tear Strength		
	Hydrolytically Stable		
	Low Viscosity		
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore D)	53	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	3.96	MPa	
10% Strain	7.76	MPa	
15% Strain	12.0	MPa	
20% Strain	15.4	MPa	
25% Strain	18.7	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	15.9	MPa	ASTM D412
Tensile Strength	51.7	MPa	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Tear Strength			
-- ¹	131	kN/m	ASTM D624
Split	30	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	38	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 11		
Resin	Mix Ratio by Weight: 100		

Demold Time	10 to 20	min
Post Cure Time (110°C)	16	hr

NOTE

1. Die C

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