

Vibrathane® 8050T

Polyurethane (Polyester, TDI)

Chemtura

Message:

VIBRATHANE® 8050T is a polyester-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 50 Shore D hardness range.

These tough, high resilience elastomers are characterized by:

- High Tear Strength
- Exceptional Dynamic Properties
- Low Compression Set

General Information			
Features	Good Tear Strength		
	Good Toughness		
	Low Compression Set		
	Resilient		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50 to 52		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.1	MPa	
300% Strain	25.3	MPa	
Tensile Strength	61.2	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength			
-- ¹	138	kN/m	ASTM D624
Split	25	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	34	%	ASTM D395B
Bayshore Resilience	23	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 15		
Resin	Mix Ratio by Weight: 100		
Pot Life	3.0 to 5.0	min	
Post Cure Time (100°C)	16	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	0.25 to 0.50	hr	

NOTE

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