Vibrathane® 8590

Polyurethane (Polyester, MDI)

Chemtura

Message:

VIBRATHANE 8590 is a polyester-based, MDI terminated liquid urethane prepolymer that exhibits Chemtura's advanced technology in this vital area of the polyurethane industry. This new prepolymer is highly unique in its resistance to heat aging and its uniform, predictable response to the addition of catalyst. When cured with 1,4 Butanediol, this member of the Vibrathane family produces high quality vulcanizates that is 91 Shore A hardness.
These tough, high quality elastomers are characterized by:
High Tear Strength
Excellent Abrasion Resistance
Good Solvent Resistance
Excellent flex life
Vibrathane 8590, at processing temperature, is low in viscosity and has a working life suitable for both machine and hand-batching procedures.

General Information			
Features	Good Abrasion Resistance		
	Good Heat Aging Resistance		
	Good Tear Strength		
	Good Toughness		
	Low Viscosity		
	Solvent Resistant		
Forms	Liquid		
Hardness	**Nominal Value**		**Test Method**
Durometer Hardness (Shore A)	91		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Compressive Strength			ASTM D695
5% Strain	1.88	MPa	
10% Strain	3.63	MPa	
15% Strain	5.35	MPa	
20% Strain	7.16	MPa	
25% Strain	9.16	MPa	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% Strain	8.07	MPa	
300% Strain	19.7	MPa	
Tensile Strength	50.3	MPa	ASTM D412
Tensile Elongation (Break)	490	%	ASTM D412
Tear Strength			
-- [1]	107	kN/m	ASTM D624
Split	21	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	26	%	ASTM D395B
Bayshore Resilience	30	%	ASTM D2632

Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 8.4	
Resin	Mix Ratio by Weight: 100	
Pot Life	5.0	min
Post Cure Time (115°C)	16	hr
Uncured Properties	**Nominal Value**	**Unit**
Curing Time (115°C)	1.0	hr
NOTE		
1.	Die C	

Recommended distributors for this material

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