

Vibrathane® B600

Polyurethane (Polyether, TDI)

Chemtura

Message:

VIBRATHANE® B600, B601 and B602 are polyether-based (PTMG) liquid polymers which will produce elastomers in the hardness range 80 to 95 Shore A (30 to 50 Shore D) when cured with 4,4'-methylene-bis-(ortho-chloroaniline), commonly called MOCA.

Features of these elastomers include:

- Good toughness and abrasion resistance.
- Excellent low temperature flexibility.
- Very good dynamic properties
- High resilience.
- Good resistance to heat, humidity and many other environments.
- Low viscosity and easy processing characteristics.

General Information			
Features	Good Abrasion Resistance		
	Good Processability		
	Good Toughness		
	Low Temperature Flexibility		
	Low Viscosity		
	Medium Heat Resistance		
	Resilient		
Forms	Liquid		
Processing Method	Casting		
	Compression Molding		
	Spraying		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.58	MPa	
300% Strain	15.2	MPa	
Tensile Strength	37.9	MPa	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Tear Strength			
-- ¹	105	kN/m	ASTM D624
Split	16	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	30	%	ASTM D395B
Bayshore Resilience	42	%	ASTM D2632

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -63.0	°C	ASTM D746
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 12		
Resin	Mix Ratio by Weight: 100		
Pot Life	10	min	
NOTE			
1.	Die C		

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