

Vibrathane® B604

Polyurethane (Polyether, TDI)

Chemtura

Message:

VIBRATHANE B-604 is a polyether-based TDI terminated prepolymer which yields a 75D hardness urethane when cured with 4,4'-methylene-bis-(orthochloroaniline).

VIBRATHANE B-604 is characterized by exceptionally low viscosity and when cured with 4,4'-methylene-bis-(orthochloroaniline) has:

- Very high modulus and tensile
- Low coefficient of friction
- Good machineability
- High heat- distortion temperature
- Excellent humid aging resistance
- Good impact resistance

General Information			
Features	Good Impact Resistance		
	High Tensile Strength		
	Humidity Resistant		
	Low Friction		
	Low Viscosity		
	Machinable		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	965	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	34.5	MPa	ASTM D412
Tensile Strength	55.2	MPa	ASTM D412
Tensile Elongation (Break)	210	%	ASTM D412
Tear Strength (Split)	21	kN/m	ASTM D470
Compression Set			
70°C, 22 hr	1.0	%	ASTM D395A
70°C, 22 hr	55	%	ASTM D395B
Bayshore Resilience	35	%	ASTM D2632
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750 to 960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-57.0	°C	ASTM D746
Thermoset	Nominal Value	Unit	

Pot Life	1.5	min
Demold Time	15	min
Uncured Properties	Nominal Value	Unit
Curing Time (100°C)	16	hr

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