# Vibrathane® 6012

### Polyurethane (Polyester, MDI)

#### Chemtura

#### Message:

VIBRATHANE 6012 is a polyester-based MDI-terminated prepolymer which yields 87A to 53D hardness urethanes when extended with 1,4-butanediol or hydroquinone bis (betahydroxyethyl) ether (HQEE) curatives.

Urethanes from VIBRATHANE 6012 have these features:

FDA approved for use with both wet and dry foods

Outstanding abrasion resistance

High tensile and tear strength

Excellent load-bearing capability.

No methylene bis (ortho-chloroaniline) (MBCA) required

Lower isocyanate exposure

Superior urethane hydrolytic stability

General Information			
Features	Food Contact Acceptable		
	Good Abrasion Resistance		
	Good Tear Strength		
	High Tensile Strength		
	Hydrolytically Stable		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	10.3	MPa	ASTM D412
Tensile Strength	53.8	MPa	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Tear Strength			
1	133	kN/m	ASTM D624
Split	25	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	52	%	ASTM D395B
Bayshore Resilience	24	%	ASTM D2632
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-58.0	°C	ASTM D746
Thermoset	Nominal Value	Unit	
Post Cure Time (110°C)	4.0	hr	
Uncured Properties	Nominal Value	Unit	
Curing Time (110°C)	1.0	hr	

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#### Recommended distributors for this material

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