

# Adiprene® BL 16

Polyurethane (Polyether, TDI)

Chemtura

## Message:

ADIPRENE BL-16 is a liquid urethane elastomer with blocked isocyanate curing sites, which can be activated by heating. The blocked curing sites allow protracted storage of the polymer in the presence of moisture and active vulcanizing agents. Diamine-cured ADIPRENE BL-16 yields vulcanizates essentially equivalent to those of ADIPRENE L-167.

These products have high tensile strength and excellent oil and abrasion resistance. ADIPRENE BL-16 is well suited as a vehicle for abrasion resistant coatings for fabric and rubber, and for solvent-resistant adhesives.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Heat Cure		
	High Tensile Strength		
	Oil Resistant		
Uses	Adhesives		
	Coating Applications		
	Fabric Coatings		
Appearance	Amber		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.04 to 1.08	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	92		
Shore D	48		
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-22 Wheel)	112	mg	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.4	MPa	
300% Strain	24.8	MPa	
Tensile Strength	37.2	MPa	ASTM D412
Tensile Elongation (Break)	460	%	ASTM D412
Aging	Nominal Value	Unit	
Change in Volume			
50°C, 168 hr, in ASTM Oil #3	6.8	%	
50°C, 168 hr, in Reference Fuel B	25	%	

Thermoset	Nominal Value	Unit
Thermoset Components		
Hardener	Mix Ratio by Weight: 12	
Resin	Mix Ratio by Weight: 100	
Fill Analysis	Nominal Value	Unit
Brookfield Viscosity (50°C)	7.50 to 15.0	Pa·s
Isocyanate Content		
Blocked	5.3 to 5.8	%
Free	< 0.25	%
Uncured Properties	Nominal Value	Unit
Curing Time (130°C)	1.0	hr
NOTE		
1.	25°C	

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