

Adiprene® L 300

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE L 300 is a polyether-based liquid urethane prepolymer which is readily processable by conventional hand and machine mixing techniques. ADIPRENE L 300 produces high quality elastomers in the 88-92 durometer A hardness range when cured with 4,4'-Methylene-bis[2Chloroaniline] or CAYTUR® 21DA urethane curative.

These tough, highly resilient elastomers have many unique features:

- Excellent low-temperature flexibility
- Excellent abrasion resistance
- Good hydrolytic stability
- Good compression set resistance

The properties of ADIPRENE L 300 suggest its use in applications such as small rolls, draft gears, and spraying.

The relatively short working life of mixes of ADIPRENE L 300 and MBCA can, in many cases, effect significant savings for the processor by increasing production rates via reduced demolding times.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Hydrolytically Stable		
	Low Temperature Flexibility		
	Resilient		
Uses	Gears		
Forms	Liquid		
Processing Method	Casting		
	Compression Molding		
	Spraying		
	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	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	7.07	MPa	
300% Strain	13.8	MPa	
Tensile Strength	29.0	MPa	ASTM D412
Tensile Elongation (Break)	410	%	ASTM D412
Tear Strength (Split)	16	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	31	%	ASTM D395B
Bayshore Resilience	45	%	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 (85°C)	5.0	min	
Post Cure Time (100°C)	16	hr	
Additional Information	Nominal Value	Unit	
Abrasion Index - NBS	140		
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	1.0	hr	

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