

Adiprene® LF 1900A

Polyurethane (Polyester, TDI)

Chemtura

Message:

ADIPRENE LF 1900A is a TDI-terminated polyester prepolymer having very low free TDI content. This prepolymer also has low viscosity, which allows it to be processed at reduced temperature for better heat stability and longer pot life. It yields a high performance, 90 Shore A hardness elastomer when cured with 4,4'-methylene-bis-(o-chloroaniline), commonly called MBCA.

Features of ADIPRENE LF 1900A include:

- Low Free TDI Content
- Low Viscosity
- Long Pot Life
- High Tear and Tensile Strength

General Information			
Features	Good Abrasion Resistance		
	Good Tear Strength		
	High Tensile Strength		
	Low Viscosity		
Uses	Wheels		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90 to 93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	1.65	MPa	
10% Strain	2.62	MPa	
15% Strain	3.62	MPa	
20% Strain	4.96	MPa	
25% Strain	6.69	MPa	
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	47.3	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	8.27	MPa	
200% Strain	10.3	MPa	
300% Strain	15.2	MPa	
Tensile Strength	49.6	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Tear Strength			

-- 1	105	kN/m	ASTM D624
Split	24	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	32	%	ASTM D395B
Bayshore Resilience	27	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	6.0 to 8.0	min	
Demold Time	30 to 45	min	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	16	hr	
NOTE			

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