

Adiprene® LF 1700A

Polyurethane (Polyester, TDI)

Chemtura

Message:

ADIPRENE® LF 1700A 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, 70-75 Shore A hardness elastomer when cured with 4,4'-methylene-bis-(o-chloroaniline), commonly called MBCA.

Features of ADIPRENE LF 1700A include:

Low Free TDI Content

Low Viscosity

High Rebound

General Information			
Features	Low Viscosity		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70 to 75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	0.621	MPa	
10% Strain	0.965	MPa	
15% Strain	1.38	MPa	
20% Strain	1.93	MPa	
25% Strain	2.62	MPa	
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	21.9	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	3.00	MPa	
200% Strain	3.55	MPa	
300% Strain	4.34	MPa	
Tensile Strength	40.0	MPa	ASTM D412
Tensile Elongation (Break)	730	%	ASTM D412
Tear Strength			
-- 1	45.5	kN/m	ASTM D624
Split	11	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	34	%	ASTM D395B
Bayshore Resilience	35	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	11 to 15	min	

Demold Time	> 60	min
Post Cure Time (70°C)	16	hr
NOTE		
1.	Die C	

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