

Adiprene® LF 1930A

Polyurethane (Polyester, TDI)

Chemtura

Message:

ADIPRENE LF 1930A 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 93 Shore A hardness elastomer when cured with 4,4'-methylene-bis-[o-chloroaniline], commonly called MBCA.

Features of ADIPRENE LF 1930A include:

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

General Information			
Features	Low viscosity		
	High tensile strength		
	Good tear strength		
	Good wear resistance		
Uses	Wheels		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92 - 94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	2.55	MPa	ASTM D695
10% strain	4.00	MPa	ASTM D695
15% strain	5.52	MPa	ASTM D695
20% strain	7.58	MPa	ASTM D695
25% strain	10.3	MPa	ASTM D695
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	64.8	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	11.7	MPa	ASTM D412
200% strain	15.2	MPa	ASTM D412
300% strain	22.1	MPa	ASTM D412
Tensile Strength	50.0	MPa	ASTM D412
Tensile Elongation (Break)	490	%	ASTM D412
Tear Strength			

-- 1	121	kN/m	ASTM D624
Cracking	28	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	33	%	ASTM D395B
Bayshore Resilience	27	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	6.0 - 8.0	min	
Demold Time	25 - 35	min	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	6.0	hr	
NOTE			

1. C mould

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