

Adiprene® LF 1600D

Polyurethane (Polyester, TDI)

Chemtura

Message:

ADIPRENE® LF 1600D 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, 60 Shore D hardness elastomer when cured with 4,4'-methylene-bis-(o-chloroaniline), commonly called MBCA.

Features of ADIPRENE LF 1600D include:

Low Free TDI Content (below 0.1%)

Low Viscosity

Long Pot Life with Short Demold Time

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	1.30	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 to 62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	4.65	MPa	
10% Strain	9.72	MPa	
15% Strain	14.0	MPa	
20% Strain	19.1	MPa	
25% Strain	25.2	MPa	
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	80.6	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	19.3	MPa	
300% Strain	34.5	MPa	
Tensile Strength	52.4	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength			
-- ¹	131	kN/m	ASTM D624

Split	33	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	33	%	ASTM D395B
Bayshore Resilience	38	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	3.0 to 4.0	min	
Demold Time	30	min	
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	16	hr	
NOTE			
1.	Die C		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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