

Adiprene® LF 601D

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE LF 601D is a TDI-terminated polyether prepolymer with extremely low free TDI content. Curing with 4,4'-methylene-bis-(o-chloroaniline), MBCA, yields a high performance 60 Shore D polyurethane elastomer suitable for many high-performance applications.

Features of Adiprene LF 601D include:

- Low free TDI content
- Low viscosity
- Long pot life
- Excellent high temperature dynamic properties

General Information			
Features	Low Viscosity		
Uses	Wheels		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 to 62		ASTM D2240
Hardness - P & J	7.00		
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	6.89	MPa	
10% Strain	11.0	MPa	
15% Strain	15.2	MPa	
20% Strain	20.7	MPa	
25% Strain	27.6	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	25.5	MPa	
200% Strain	32.4	MPa	
Tensile Strength	48.3	MPa	ASTM D412
Tensile Elongation (Break)	290	%	ASTM D412
Tear Strength			
-- ¹	110	kN/m	ASTM D624
Split	20	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	28	%	ASTM D395B
Bayshore Resilience	42	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	4.5	min	
Demold Time	20	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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