

Adiprene® LFG 740D

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE LFG 740D is a TDI-terminated polyether prepolymer that, when cured with 4,4'-methylene-bis-(o-chloroaniline),MBCA, yields a 75 Shore D elastomer.

The features of ADIPRENE LFG 740D include:

- Low Free TDI Content (below 0.1%)
- Good High Temperature Dynamics
- Low Viscosity

LFG 740D offers improved safety during handling and processing over conventional-type prepolymers due to the low content of free TDI, less than 0.1%.

General Information			
Features	Low Viscosity		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	8.96	MPa	
10% Strain	20.7	MPa	
15% Strain	29.6	MPa	
20% Strain	39.6	MPa	
25% Strain	49.6	MPa	
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	56.0	N/mm	ASTM D1938
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	26.2	MPa	
300% Strain	37.9	MPa	
Tensile Strength	41.4	MPa	ASTM D412
Tensile Elongation (Break)	320	%	ASTM D412
Tear Strength			
-- ¹	145	kN/m	ASTM D624
Split	19	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	50	%	ASTM D395B
Bayshore Resilience	43	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	2.0	min	
Demold Time	30	min	

Additional Information	Nominal Value	Unit
Dynamic Properties		
Dynamic Modulus : 30°C	3.00E+9	dynes/cm ²
Dynamic Modulus : 50°C	2.20E+9	dynes/cm ²
Dynamic Modulus : 70°C	1.60E+9	dynes/cm ²
Dynamic Modulus : 130°C	7.50E+8	dynes/cm ²
Dynamic Modulus : 150°C	5.90E+8	dynes/cm ²
Tangent : 30°C	0.0740	
Tangent : 50°C	0.0830	
Tangent : 70°C	0.0960	
Tangent : 130°C	0.0740	
Tangent : 150°C	0.0600	
Uncured Properties		
Curing Time (100°C)	16	hr
NOTE		
1.	Die C	

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