

Adiprene® LFP 3940A

Polyurethane (Polycarbonate, PPDI)

Chemtura

Message:

ADIPRENE LFP 3940A is a PPDI-terminated polycarbonate prepolymer having very low free PPDI content (typical < 0.1%) for easier management of health and safety during handling. ADIPRENE LFP 3940A yields high performance 93-96 Shore A hardness elastomers when cured with VIBRACURE® A 250 or HQEE.

The high performance features of ADIPRENE LFP 3940A are due to PPDI (p-phenylene diisocyanate), a special building block that imparts exceptional properties to cast polyurethane elastomers. The unique combination of properties exhibited by PPDI-based prepolymers is superior to those available from standard prepolymers based on TDI or MDI.

Features of ADIPRENE LFP 3940A include:

Low Free PPDI Content

Excellent hydrolytic stability, oil stability and thermal stability

Long Pour Life

Excellent Dynamics

Good Tensile/Tear Strength

Excellent Resilience

General Information			
Features	Good Tear Strength		
	Good Thermal Stability		
	High Tensile Strength		
	Hydrolytically Stable		
	Resilient		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	94 to 96		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	10.9	MPa	
300% Strain	17.9	MPa	
Tensile Strength	52.4	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength (Split)	26	kN/m	ASTM D470
Compression Set			ASTM D395B
70°C, 22 hr	33	%	
100°C, 22 hr	55	%	
Bayshore Resilience	50	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	5.0	min	
Demold Time	> 60	min	
Post Cure Time (127°C)	16	hr	
Additional Information	Nominal Value	Unit	


Dynamic Properties		
Storage Modulus : 30°C	3.25E+8	dynes/cm ²
Storage Modulus : 150°C	2.60E+8	dynes/cm ²
Tangent Delta : 30°C	0.0220	
Tangent Delta : 150°C	0.0190	

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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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