Adiprene® LFP 2950A

Polyurethane (Polycaprolactone, PPDI)

Chemtura

Message:

ADIPRENE LFP 2950A is a PPDI-terminated polycaprolactone prepolymer having very low free PPDI content (typical < 0.1%) for easier management of health and safety during handling. This prepolymer is similar to ADIPRENE PP 1096H in composition and performance. ADIPRENE LFP 2950A yields high performance 93-96 Shore A hardness elastomers when cured with VIBRACURE® A 250 or HQEE.

The high performance features of ADIPRENE LFP 2950A 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 2950A include:

Low Free PPDI Content
Low Viscosity and Easy Melting
Long Pour Life
Excellent Dynamics
Good Tensile/Tear Strength
Excellent Resilience

General Information			
Features	Good Tear Strength		
	High Tensile Strength		
	Low Viscosity		
	Resilient		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94 to 96		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% Strain	2.76	MPa	
10% Strain	5.52	MPa	
15% Strain	8.27	MPa	
20% Strain	11.7	MPa	
25% Strain	15.2	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	10.3	MPa	
300% Strain	13.8	MPa	
Tensile Strength	44.8	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Tear Strength (Split)	25	kN/m	ASTM D470
Compression Set			ASTM D395B

70°C, 22 hr	45	%	
100°C, 22 hr	60	%	
Bayshore Resilience	62	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	9.0	min	
Demold Time	> 60	min	
Post Cure Time (127°C)	16	hr	
Additional Information	Nominal Value	Unit	
Dynamic Properties			
Storage Modulus : 30°C	3.20E+8	dynes/cm²	
Storage Modulus : 150°C	2.10E+8	dynes/cm²	
Tangent Delta : 30°C	0.0150		
Tangent Delta : 150°C	0.0130		

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