Adiprene® L 167

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE® L 167 urethane rubber is one of a series of liquid urethane polymers which can be cured to a strong, rubbery solid by reaction of the isocyanate groups with polyamine or polyol compounds. When cured with MBCA curing agent, ADIPRENE L 167 yields vulcanizates in the 95A durometer hardness range. Lower hardness values and special properties can be obtained with other curing systems. Cured ADIPRENE L 167 has high tensile strength and resilience and excellent properties at low temperatures. It is resistant to abrasion, compression set, oils, solvents, oxidation and ozone. ADIPRENE L 167 can be cast or sprayed to produce a variety of molded goods and protective and decorative coatings.

General Information	
Features	Good Abrasion Resistance
	High Tensile Strength
	Low Temperature Resistant
	Oil Resistant
	Oxidation Resistant
	Ozone Resistant
	Resilient
	Solvent Resistant
Uses	Coating Applications
Forms	Liquid
Processing Method	Casting
	Spraying

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	95		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% Strain	12.4	MPa	
300% Strain	23.4	MPa	
Tensile Strength	34.5	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength			
-- [1]	87.6	kN/m	ASTM D624
Split	26	kN/m	ASTM D470
Compression Set (70°C, 22 hr)	40	%	ASTM D395B
Bayshore Resilience	40	%	ASTM D2632
Clash-Berg Modulus			ASTM D1043

-57°C	552	MPa	
-40°C	114	MPa	
-18°C	49.3	MPa	
24°C	16.5	MPa	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
CLTE - Flow			ASTM D696
-36 to 0°C	2.3E-4	cm/cm/°C	
0 to 24°C	1.6E-4	cm/cm/°C	
24 to 100°C	1.6E-4	cm/cm/°C	
100 to 150°C	1.2E-4	cm/cm/°C	
Thermal Conductivity	0.12	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Thermoset Components			
Hardener	Mix Ratio by Weight: 19		
Resin	Mix Ratio by Weight: 100		
Pot Life (85°C)	6.0	min	
Demold Time (100°C)	15	min	
Post Cure Time (70°C)	16	hr	
Additional Information	Nominal Value	Unit	
Abrasion Index - NBS	300		
Uncured Properties	Nominal Value	Unit	
Curing Time (100°C)	1.0	hr	
NOTE			
1.	Die C		

Recommended distributors for this material

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