Adiprene® L 275

Polyurethane (Polyether, TDI)

Chemtura

Message:

ADIPRENE L 275 is a polyether-based liquid urethane prepolymer which is readily processable by conventional hand and machine mixing techniques similar to those used for ADIPRENE L 315. ADIPRENE L 275 produces high quality vulcanizates in the 70-75 Shore D hardness range when cured with MBCA (4,4'-methylene-bis[o-chloroaniline]). These tough, high resilience elastomers have many unique features:
Excellent low-temperature flexibility
Excellent abrasion resistance
Good hydrolytic stability
Good compression set resistance
Outstanding impact strength
Excellent processing and controlled hardness build-up
ADIPRENE L 275 has a longer working life when mixed with curatives than does ADIPRENE L 315, making it more suitable for the preparation of large parts.

General Information	
Features	Good Abrasion Resistance
	Good Processability
	Good Toughness
	High Impact Resistance
	Hydrolytically Stable
	Low Temperature Flexibility
	Resilient
Forms	Liquid
Processing Method	Casting
	Compression Molding
	Vacuum Casting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.7	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	74		ASTM D2240
Hardness - P & J			
21°C	3.00		
70°C	4.00		
100°C	7.00		
121°C	8.50		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	758	MPa	ASTM D790
Compressive Strength			ASTM D695

10% Strain	42.3	MPa	
25% Strain	78.6	MPa	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	35.0	MPa	ASTM D412
Tensile Strength	49.1	MPa	ASTM D412
Tensile Elongation (Break)	230	%	ASTM D412
Tear Strength (Split)	20	kN/m	ASTM D470
Compression Set [1] (70°C, 22 hr)	1.1	%	ASTM D395A
Bayshore Resilience	47	%	ASTM D2632
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	960 to 1000	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	48.0	°C	ASTM D648
Brittleness Temperature	-54.0	°C	ASTM D746
Thermoset	**Nominal Value**	**Unit**	
Thermoset Components			
Hardener	Mix Ratio by Weight: 26		
Resin	Mix Ratio by Weight: 100		
Pot Life	3.0	min	
Post Cure Time (100°C)	16	hr	
Uncured Properties	**Nominal Value**	**Unit**	
Curing Time (100°C)	1.0	hr	
NOTE			
1.	2.8 MPa (400psi) load		

Recommended distributors for this material

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