

# Andur 1-8 APLM/Curene® 442

Polyurethane (Polyester, TDI)  
Anderson Development Company

## Message:

Andur 1-8APLM is a polyester based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 79 to 82 Shore A is obtained when this prepolymer is cured with Curene® 442 [4,4'-methylene-bis (orthochloroaniline)]. Elastomers of lower hardness can be obtained by reaction with various poyols and their combination with Curene 442 and other diamines, or through the use of plasticizers.

General Information			
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	ASTM D1505
Molding Shrinkage - Flow	1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	81		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	3.96	MPa	ASTM D412
300% strain	6.00	MPa	ASTM D412
Tensile Strength (Yield)	50.3	MPa	ASTM D412
Tensile Elongation (Break)	640	%	ASTM D412
Compression Set	26	%	ASTM D395B
Bayshore Resilience	39	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	9.0 - 13	min	
Demold Time (100°C)	30	min	
Post Cure Time (100°C)	16	hr	

Additional Information	
Durometer Hardness, ASTM D2240, Shore A: 79 to 82Die C Tear, ASTM D1004: 345 pliAverage Split Tear, ASTM D1938: 215 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 1-8 APLM: 180-212°F Curene 442: 230-240°F	

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