

Andur 950 AP/Curene® 442

Polyurethane (Polyester/Polyether mix, TDI)

Anderson Development Company

Message:

Andur 950-AP is the result of several years of research to develop a high performance, moderate cost prepolymer for the cast urethane industry. This new product is a poly-ester/ether, toluene diisocyanate-terminated prepolymer. An elastomer with a hardness of 95 Shore A is obtained by reaction with Curene 442. Elastomers of lower hardness can be obtained by reaction with various polyols and their combination with Curene 442 and other diamines, or by the use of plasticizers.

General Information			
Features	Solvent resistance		
	Hydrolysis stability		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ASTM D1505
Molding Shrinkage - Flow	1.1	%	ASTM D955
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	ASTM D412
300% strain	24.1	MPa	ASTM D412
Tensile Strength (Yield)	52.6	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Compression Set	29	%	ASTM D395B
Bayshore Resilience	32	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	3.0 - 5.0	min	
Demold Time (100°C)	15	min	
Post Cure Time (100°C)	3.0	hr	

Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 93 to 97Die C Tear, ASTM D1004: 555 pliAverage Split Tear, ASTM D1938: 235 pliStoichiometry Curative Level: 95%Cure Time, 150 to 160°F: OvernightMix Temperature:			
Andur 950 AP: 180-212°F			
Curene 442: 250°F			

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