

Andur 8000 AP/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 8000 AP is a polyether (PPG) based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 80 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 curing Andur 8000-AP with polyols 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	1.12	g/cm ³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	0.421	MPa	ASTM D695
10% strain	1.10	MPa	ASTM D695
15% strain	1.94	MPa	ASTM D695
25% strain	3.17	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	3.76	MPa	ASTM D412
300% strain	7.96	MPa	ASTM D412
Tensile Strength (Yield)	14.8	MPa	ASTM D412
Tensile Elongation (Break)	420	%	ASTM D412
Compression Set	34	%	ASTM D395B
Bayshore Resilience	20	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	10 - 12	min	
Demold Time (100°C)	40	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 78 to 82Die C Tear, ASTM D1004: 205 pliAverage Split Tear, ASTM D1938: 55 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 8000 AP: 180-212°F Curene 442: 235-250°F			
Injection	Nominal Value	Unit	
Mold Temperature	104 - 113	°C	

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