

Andur 9000 AP/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 9000-AP is a polyether (PPG) based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 90 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 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	1.13	g/cm ³	ASTM D1505
Molding Shrinkage - Flow	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	0.531	MPa	ASTM D695
10% strain	2.09	MPa	ASTM D695
15% strain	3.72	MPa	ASTM D695
25% strain	5.93	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	8.24	MPa	ASTM D412
300% strain	20.3	MPa	ASTM D412
Tensile Strength (Yield)	27.8	MPa	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Compression Set	32	%	ASTM D395B
Bayshore Resilience	30	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	3.0 - 5.0	min	
Demold Time	30 - 45	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 88 to 92Die C Tear, ASTM D1004: 322 pliAverage Split Tear, ASTM D1938: 102 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 9000 AP: 180-212°F Curene 442: 235-250°F			
Injection	Nominal Value	Unit	
Mold Temperature	104 - 113	°C	

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