

Andur 2-92 AP/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 2-92AP is a polyether (PTMG) based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 92 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 by the use of plasticizers.

General Information			
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	1.49	MPa	ASTM D695
10% strain	3.55	MPa	ASTM D695
15% strain	5.65	MPa	ASTM D695
25% strain	8.48	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.0	MPa	ASTM D412
300% strain	20.8	MPa	ASTM D412
Tensile Strength (Yield)	49.2	MPa	ASTM D412
Tensile Elongation (Break)	410	%	ASTM D412
Compression Set	27	%	ASTM D395B
Bayshore Resilience	46	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	5.0 - 6.0	min	
Demold Time	30 - 40	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 90 to 94Die C Tear, ASTM D1004: 515 pliAverage Split Tear, ASTM D1938: 110 pliStoichiometry Curative Level: 95%Grams Curene 442 per 100 grams Andur 2 to 92 AP: 13.9 to 16Mix Temperature: Andur 2-92 AP: 180-212°F Curene 442: 230-250°F			
Injection	Nominal Value	Unit	
Mold Temperature	104 - 121	°C	

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