

Andur 90 AP/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 90-AP is a polyether (PTMG) 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 by the use of plasticizers.

General Information			
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	7.58	MPa	ASTM D412
300% strain	14.5	MPa	ASTM D412
Tensile Strength (Yield)	44.7	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Compression Set	30	%	ASTM D395B
Bayshore Resilience	48	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	9.0 - 11	min	
Demold Time (100°C)	25 - 30	min	
Post Cure Time (100°C)	3.0	hr	

Additional Information	
Durometer Hardness, ASTM D2240, Shore A: 88 to 92Die C Tear, ASTM D1004: 500 pliAverage Split Tear, ASTM D1938: 110 pliStoichiometry Curative Level: 95%Cure Time, 150 to 160°F: OvernightMix Temperature: Andur 90 AP: 180-212°F Curene 442: 250°F	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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