

# Andur 80-5 AP/Curene® 442

Polyurethane (Polyether, TDI)  
Anderson Development Company

Message:

Andur 80-5AP is a polyether (PTMG) based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 83-85 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 80-5AP 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	1.05	g/cm <sup>3</sup>	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	0.676	MPa	ASTM D695
10% strain	1.68	MPa	ASTM D695
15% strain	2.87	MPa	ASTM D695
25% strain	4.38	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	5.38	MPa	ASTM D412
300% strain	9.69	MPa	ASTM D412
Tensile Strength (Yield)	36.5	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Compression Set	28	%	ASTM D395B
Bayshore Resilience	55	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	6.0 - 7.0	min	
Demold Time	30	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 81 to 85Die C Tear, ASTM D1004: 425 pliAverage Split Tear, ASTM D1938: 130 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 80-5 AP: 180-212°F Curene 442: 235-250°F			
Injection	Nominal Value	Unit	
Mold Temperature	104 - 113	°C	

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## 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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