Andur 850 AP/Curene® 442

Polyurethane (Polyester/Polyether mix, TDI)

Anderson Development Company

Message:

Andur 850-AP is the result of several years of research to develop a high performance moderate cost prepolymer for the cast urethane industry. This product is a polyester/polyether TDI terminated coprepolymer. An elastomer with a hardness of 84 to 86 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			
Features	Solvent resistance Hydrolysis stability		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.16	g/cm³	ASTM D1505
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	85		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain	5.38	MPa	ASTM D412
300% strain	9.10	MPa	ASTM D412
Tensile Strength (Yield)	46.4	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Compression Set	30	%	ASTM D395B
Bayshore Resilience	35	%	ASTM D2632
Thermoset	**Nominal Value**	**Unit**	
Pot Life	3.0 - 6.0	min	
Demold Time (100°C)	20	min	
Post Cure Time (100°C)	4.0	hr	

Additional Information

Durometer Hardness, ASTM D2240, Shore A: 84 to 86Die C Tear, ASTM D1004: 365 pliAverage Split Tear, ASTM D1938: 233 pliStoichiometry Curative Level: 95%Cure Time, 150 to 160°F: OvernightMix Temperature:
Andur 850 AP: 180-212°F
Curene 442: 250°F

Recommended distributors for this material

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