Andur 1-83 AP/Curene® 442

Polyurethane (Polyether, TDI)

Anderson Development Company

Message:

Andur 1-83 AP 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 1-83 AP 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	1.07	g/cm³	ASTM D1505
Molding Shrinkage - Flow	1.3	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	84		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain	4.69	MPa	ASTM D412
300% strain	8.27	MPa	ASTM D412
Tensile Strength (Yield)	31.7	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Bayshore Resilience	56	%	ASTM D2632
Thermoset	**Nominal Value**	**Unit**	
Pot Life	8.0 - 11	min	
Demold Time	30	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 83 to 85Die C Tear, ASTM D1004: 350 pliAverage Split Tear, ASTM D1938: 70 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 1-83 AP: 160-180°F Curene 442: 230-240°F			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	100 - 113	°C	

Recommended distributors for this material

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