

# Andur 9-5 APLF/Curene® 442

Polyurethane (Polyester, TDI)  
Anderson Development Company

Message:

Andur 9-5 APLF is a polyester based liquid, toluene diisocyanate terminated prepolymer containing 0.1% or less free TDI monomer. An elastomer with a hardness of 94 to 97 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, other diamines or through the use of plasticizers.

General Information			
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm <sup>3</sup>	ASTM D1505
Molding Shrinkage - Flow	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	96		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	1.62	MPa	ASTM D695
10% strain	5.67	MPa	ASTM D695
15% strain	9.14	MPa	ASTM D695
20% strain	13.8	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	11.0	MPa	ASTM D412
300% strain	17.2	MPa	ASTM D412
Tensile Strength (Yield)	51.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Bayshore Resilience	30	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	4.0 - 5.0	min	
Demold Time (100°C)	20	min	
Post Cure Time (100°C)	16	hr	
Additional Information			

Durometer Hardness, ASTM D2240, Shore A: 94 to 97Die C Tear, ASTM D1004: 500 pliAverage Split Tear, ASTM D1938: 300 pliStoichiometry Curative Level: 95%Mix Temperature:  
Andur 9-5 APLF: 160-180°F  
Curene 442: 230-240°F

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