

Andur 9500 APLF/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 9500 APLF is a polyether (PPG) based liquid, toluene diisocyanate terminated prepolymer containing 0.1% or less free TDI monomer. An elastomer with a hardness of 95 Shore A is obtained when this prepolymer is cured with Curene 442 [4,4'-methylene-bis (ortho-chloroaniline)]. Elastomers of lower hardness can be obtained by curing Andur 9500 APLF with 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	1.13	g/cm ³	ASTM D1505
Molding Shrinkage - Flow	1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	1.36	MPa	ASTM D695
10% strain	4.55	MPa	ASTM D695
15% strain	7.25	MPa	ASTM D695
25% strain	10.4	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	13.8	MPa	ASTM D412
300% strain	20.3	MPa	ASTM D412
Tensile Strength (Yield)	29.0	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Compression Set	35	%	ASTM D395B
Bayshore Resilience	35	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	5.0 - 6.0	min	
Demold Time	20 - 30	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 93 to 97Die C Tear, ASTM D1004: 350 pliAverage Split Tear, ASTM D1938: 130 pliStoichiometry Curative Level: 95%Grams Curene 442 per 100 grams Andur 9500 APLF: 17.5 to 18.7Mix Temperature: Andur 9500 APLF: 150-180°F Curene 442: 230-240°F			
Injection	Nominal Value	Unit	
Mold Temperature	100 - 110	°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

