

# Andur 5 DPLM/Curene® 442

Polyurethane (Polyester, TDI)  
Anderson Development Company

Message:

Andur 5-DPLM is a polyester based, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 50 Shore D 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 5-DPLM with poyols 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	1.23	g/cm <sup>3</sup>	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
5% strain	0.972	MPa	ASTM D695
10% strain	3.37	MPa	ASTM D695
15% strain	5.58	MPa	ASTM D695
25% strain	8.56	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.9	MPa	ASTM D412
300% strain	22.7	MPa	ASTM D412
Tensile Strength (Yield)	59.1	MPa	ASTM D412
Tensile Elongation (Break)	520	%	ASTM D412
Compression Set	29	%	ASTM D395B
Bayshore Resilience	28	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	3.5 - 5.0	min	
Demold Time	30	min	
Post Cure Time (96°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore D: 48 to 53Die C Tear, ASTM D1004: 555 pliAverage Split Tear, ASTM D1938: 310 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 5 DPLM: 180-210°F Curene 442: 235-250°F			
Injection	Nominal Value	Unit	
Mold Temperature	104 - 113	°C	

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