Andur 6 APLM/Curene® 442

Polycaprolactone

Anderson Development Company

Message:

Andur 6 APLM is a polycaprolactone based, toluene diisocyanate terminated prepolymer. This high-performance system yields an elastomer with a hardness of about 60 Shore A when this prepolymer is cured with Curene 442 [4,4'-ethylenebis (orthochloroaniline)]. This system avoids this use of mixed curatives or plasticizers which are usually required to achieve hardnesses in this range, thereby, resulting in ultra high-performance properties.

General Information			
Features	Biodegradable		
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)	60		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain	1.52	MPa	ASTM D412
300% strain	2.07	MPa	ASTM D412
Tensile Strength (Yield)	29.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Bayshore Resilience	34	%	ASTM D2632
Thermoset	**Nominal Value**	**Unit**	
Pot Life	6.0 - 9.0	min	
Demold Time (116°C)	60	min	
Post Cure Time (100°C)	16	hr	
Additional Information			
Durometer Hardness, ASTM D2240, Shore A: 57 to 62Die C Tear, ASTM D1004: 190 pliAverage Split Tear, ASTM D1938: 80 pliStoichiometry Curative Level: 95%Mix Temperature: Andur 6 APLM: 212°F Curene 442: 230-240°F			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	104 - 116	°C	

Recommended distributors for this material

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