Andur 700-APX/Curene® 442

Polyurethane (Polyester/Polyether mix, TDI)

Anderson Development Company

Message:

Andur® 700-APX represents Anderson Development Company's continued effort to provide high performance, moderate cost, prepolymers for the cast urethane industry. It is a polyester/ether based, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 70 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® 700-APX with polyols and their combination with Curene® 442 and other diamines or through the use of plasticizers.

General Information			
Forms	Liquid		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	17.0	MPa	ASTM D638
Tensile Elongation (Break)	890	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	2.28	MPa	ASTM D412
300% strain	3.24	MPa	ASTM D412
Compression Set	42	%	ASTM D395B
Thermoset	Nominal Value	Unit	Test Method
Pot Life	10 - 12	min	
Thermoset Mix Viscosity (70°C)	1000	сР	ASTM D2393
Demold Time	45	min	
Post Cure Time (93°C)	16	hr	

Additional Information

All properties based on Andur® 700-APX cured with Curene® 442.The value listed as Split Tear, ASTM D470 was tested in accordance with ASTM D1938.The value listed as Elongation@Break, ASTM D638 was tested in accordance with ASTM D412.%NCO: 3.0-3.4Viscosity, cps@70°F: waxViscosity, cps@212°F: 300Specific Gravity@212°F: 1.08Rebound, ASTM D2632 %: 46Curene® 442 Level, % Stoichiometry: 95%Andur® 700-APX Mix Temperature, °F: 180-212Curene® 442 Mix Temperature, °F: 230-250Split Tear, ASTM D470: 81 pliCompression/Deflection, ASTM D575, psi5%: 5910%: 12315%: 20525%: 311Recommended Cure Time @ 150-160°F: Overnight

Injection	Nominal Value	Unit
Mold Temperature	104 - 113	°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

