

Andur 8500 AP/Curene® 442

Polyurethane (Polyether, TDI)
Anderson Development Company

Message:

Andur 8500-AP is a polyether (PPG) based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 85 to 87 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 and other diamines, or through the use of plasticizers.

| General Information | | | |
|------------------------------|---------------|-------------------|-------------|
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.12 | g/cm ³ | ASTM D1505 |
| Molding Shrinkage - Flow | 1.3 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 86 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% strain | 6.21 | MPa | ASTM D412 |
| 300% strain | 15.2 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 23.4 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 400 | % | ASTM D412 |
| Compression Set | 30 | % | ASTM D395B |
| Bayshore Resilience | 30 | % | ASTM D2632 |
| Thermoset | Nominal Value | Unit | |
| Pot Life | 7.0 - 8.0 | min | |
| Demold Time (100°C) | 25 | min | |
| Post Cure Time (100°C) | 4.0 | hr | |

| Additional Information | | | |
|---|--|--|--|
| Durometer Hardness, ASTM D2240, Shore A: 85 to 87Die C Tear, ASTM D1004: 350 pliAverage Split Tear, ASTM D1938: 82 pliStoichiometry Curative Level: 95%Cure Time, 150 to 160°F: OvernightMix Temperature: | | | |
| Andur 8500 AP: 160-212°F | | | |
| Curene 442: 250°F | | | |

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



WECHAT