

Andur 9 APFLM/Curene® 442

Polyurethane (Polyester, TDI)
Anderson Development Company

Message:

Andur 9-APF-LM is a polyester based liquid, toluene diisocyanate terminated prepolymer. An elastomer with a hardness of 89 to 92 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 | 1.22 | g/cm ³ | ASTM D1505 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 91 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% strain | 7.24 | MPa | ASTM D412 |
| 300% strain | 11.4 | MPa | ASTM D412 |
| Tensile Strength (Yield) | 55.7 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 570 | % | ASTM D412 |
| Compression Set | 24 | % | ASTM D395B |
| Bayshore Resilience | 38 | % | ASTM D2632 |
| Thermoset | Nominal Value | Unit | |
| Pot Life | 3.0 - 4.0 | min | |
| Demold Time (100°C) | 20 | min | |
| Post Cure Time (100°C) | 16 | hr | |
| Additional Information | | | |

Durometer Hardness, ASTM D2240, Shore A: 89 to 92Die C Tear, ASTM D1004: 515 pliAverage Split Tear, ASTM D1938: 290 pliStoichiometry Curative Level: 95%Mix Temperature:
Andur 9 APFLM: 180-212°F
Curene 442: 230-240°F

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