

Andur M-25 (1,4BD)

Polyurethane (Polyester, MDI)
Anderson Development Company

Message:

Andur M-25 is a low melting MDI-Ester prepolymer that, when processed with close attention to handling procedures and formulation, produces high quality elastomers. These elastomers perform very well in low temperature applications.

General Information			
Features	Compliance of Food Exposure		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness		ASTM D2240	
Shaw A	93	ASTM D2240	
Shaw D	41	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
2% strain	0.586	MPa	ASTM D695
5% strain	1.65	MPa	ASTM D695
10% strain	3.03	MPa	ASTM D695
15% strain	4.24	MPa	ASTM D695
20% strain	5.45	MPa	ASTM D695
25% strain	6.76	MPa	ASTM D695
50% strain	19.9	MPa	ASTM D695
Taber Abrasion Resistance	15.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	7.65	MPa	ASTM D412
300% strain	19.3	MPa	ASTM D412
Tensile Strength (Yield)	48.3	MPa	ASTM D412
Tensile Elongation (Break)	470	%	ASTM D412
Compression Set	15	%	ASTM D395
Bayshore Resilience	50	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	170 - 190	min	
Demold Time	10	min	
Additional Information			

Die C Tear, ASTM D1004: 600 pliAverage Split Tear, ASTM D1938: 320 pliStoichiometry Curative Level: 97%Break Set, ASTM D412-80: 35%Parts of curative per 100 parts Andur M-25, 8% NCO: 8.16 parts by weightParts of curative per 100 parts Andur M-25, 8.05% NCO: 8.21 parts by weightParts of curative per 100 parts Andur M-25, 8.1% NCO: 8.26 parts by weightParts of curative per 100 parts Andur M-25, 8.15% NCO: 8.31 parts by weightParts of curative per 100 parts Andur M-25, 8.2% NCO: 8.36 parts by weightParts of curative per 100 parts Andur M-25, 8.25% NCO: 8.41 parts by weightParts of curative per 100 parts Andur M-25, 8.3% NCO: 8.46 parts by weightMix Temperature:

Andur M-25: 194°F

Curative 1,4BD: 77-158°F

Stability:

Ambient Temperature, 25°C: 6 Months

Melting Temperature, 60°C: 1 Month

Processing Temperature, 90°C: 12 Hours

Processing Temperature, 105°C: 3 Hours

Injection	Nominal Value	Unit
Mold Temperature	90.0 - 120	°C

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