

Andur M-11 (1,4BD)

Polyurethane (Polyester, MDI)
Anderson Development Company

Message:

Andur M-11 is an MDI-Ester prepolymer that, when processed with close attention to handling procedures and formulation, produces high quality elastomers. These elastomers perform very well in dynamic applications.

General Information			
Forms	Liquid		
Hardness	Nominal Value	Test Method	
Durometer Hardness		ASTM D2240	
Shaw A	95	ASTM D2240	
Shaw D	43	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
2% strain	1.03	MPa	ASTM D695
5% strain	2.41	MPa	ASTM D695
10% strain	4.14	MPa	ASTM D695
15% strain	5.52	MPa	ASTM D695
20% strain	6.89	MPa	ASTM D695
25% strain	8.96	MPa	ASTM D695
50% strain	27.6	MPa	ASTM D695
Taber Abrasion Resistance	28.1	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	10.3	MPa	ASTM D412
200% strain	17.2	MPa	ASTM D412
300% strain	26.2	MPa	ASTM D412
Tensile Strength (Yield)	51.7	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Compression Set	33	%	ASTM D395
Bayshore Resilience	28	%	ASTM D2632
Thermoset	Nominal Value	Unit	
Pot Life	4.0 - 7.0	min	
Demold Time	35	min	
Additional Information			

Die C Tear, ASTM D1004: 705 pliAverage Split Tear, ASTM D1938: 400 pliStoichiometry Curative Level: 95%NBS Abrasion: 280% Rubber StandardParts of curative per 100 parts Andur M-11, 8.9% NCO: 9.08 parts by weightParts of curative per 100 parts Andur M-11, 9% NCO: 9.18 parts by weightParts of curative per 100 parts Andur M-11, 9.1% NCO: 9.28 parts by weightParts of curative per 100 parts Andur M-11, 9.2% NCO: 9.39 parts by weightMix Temperature:
Andur M-11: 176-194°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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