

Visit us at www.acmemachell.com

Custom Molded Rubber Products

Phone: 262-521-2870 Fax: 262-521-2894

2000 Airport Road Waukesha, WI 53187 Founded in 1949, Acme Machell is a specialty rubber molder known for its ability to produce highly engineered products. Acme provides product design, material development, quick turnaround, tooling design and high quality production.

Located in the American Midwest, we have favorable logistics to deliver your products anywhere easily and on-time.

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Phone: 262-521-2870 Fax: 262-521-2894

For Quotes contact 262-970-6841
For Production contact 262-970-6842
For Quality contact 262-970-6841
For Customer Service contact 262-970-6822

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The Acme Machell Advantage

- Diverse Product Portfolio
- Design and Application Engineering Capabilities
- Industry Leading Material Science Expertise
- Highly Flexible Production Capabilities
- ISO 9001:2008 Certification

Our Technology Advantage

- CAD design capabilities using Solid Edge
- Material Development
- Design for Manufacturing
- Fast Prototypes

• Competitive Tooling Costs





Areas of Expertise:

- Multiple Press Sizes
- Multiple Material Types and Applications
- Custom Assembly Equipment
- Custom Test Fixtures
- Laboratory Testing
- Material Traceability
- Rigorous Cosmetic Standard Processes
- Custom Packaging
- Custom Value Added Operations
- Tooling design-Production and Prototype



Quality Is Our Goal

Acme Machell is ISO 9001:2008 Certified. We use Application Engineering and Quality Assurance to make sure our products are the best quality they can be. Our engineering staff is actively involved in the selling process and works closely with customers' engineering personnel and our quality approval systems ensure that products are defect-free.

At Acme Machell quality is the responsibility of every employee.

Applications:

- Recreational
- Automotive
- Construction
- Lawn & Garden
- Water Treatment
- HVAC
- Personal Protective Equipment
- Paper Industry Industrial
- General Industrial



Acme has multiple presses and varied sizes to meet customer needs. The table below demonstrates the various processes and corresponding sizes:

Acme Machell Press Capacity					
Process Type		Size	Number		
Comp/Trsfr_					
C/T		12"	18		
C/T		14"	10		
C/T		18"	9		
C/T		24"	13		
C/T		32"	1		
Inje Inj	ction —— Maplan	16*20	5		
Inj	Maplan	20*26	3		
Inj	Maplan	26*30	6		
Inj	USM/Lewis	24*30	4		
Inj	Jing Day	24*25	2		
Inj	Desma	26*30	2		
Inj	Steinl	27*35	1		

COMPARATIVE PHYSICAL PROPERTIES OF RUBBER

Each of these different polymers may be compounded to produce specific physical properties that are engineered to meet your service requirements. Contact our sales department to discuss your product or application. We will be happy to assist you in choosing the most suitable compound to meet your requirements.

TYPE	NATURAL RUBBER	STYRENE BUTADIENE	BUTYL	NITRILE	NEOPRENE	SILICONE	FLUORO- CARBON	HYDRIN	EPDM
ASTM Designation	NR	SBR	IIR	NBR	CR	VMQ	FKM	CO, ECO	EPM, EPDM
PHYSICAL PROPERTIES									
Specific Gravity Thermal Conductivity	0.92-0.93	0.94	0.92	0.98	1.23-1.25	1.1-1.6	1.4-1.95	1.27-1.49	0.86
Btu/ft/sq ft/F Coef of ThermalmExp (cubical),	0.082	0.143	0.053	0.143	0.11	0.13	0.06-1.3	-	0.15
10^-5 per F Gum	37	37	32	39	34	45	-	-	32
MECHANICAL PROPERTIES									
Hardness, Durometer	30A-90A	30A-90A	30A-95A	30A-95A	30A-95A	20A-90A	55A-95A	30A-95A	30A-90A
Tensile Strength 1000 psi Modulus (100%),psi Elongation, %	3.5-4.5 150-3000 500-700	2.5-3.0 300-1500 450-500	2.0 50-500 300-800	1.0-3.5 100-1500 400-600	0.5-3.5 100-3000 100-800	1.5 - 100-800	2.0 200-2000 150-450	2-3 150-2000 320-350	0.5-3.5 100-3000 100-700
Compression Set, Method B, %	10-30	5-30	25	5-20	20-60	10	20-25	20	20-60
Resilience (ATSM 945) % Rebound (Bashore) Hysteresis Resistance Flex Cracking Resistance Tear Resistance Abrasion Resistance Impact Resistance	80 - Excellent Excellent Excellent Excellent	20-90 10-60 Fair-Good Good Fair Excellent Excellent	30 - - - Good Good Good	- - - Fair-Good Good Excellent Good	50-80 50-80 Very Good Very Good Good Excellent Excellent	30-60 - Fair-Good Fair-Excel. Fair Poor Poor-Good	40-70 40-70 Good Good Fair-Very Good Good Good	50-80 50-80 Good Very Good Very Good Fair-Good Good	40-75 40-75 Good Very Good Fair-Good Good-Excel. Very Good
ELECTRICAL PROPERTIES									
Volume Resistivity ohm-cm	-	5.0-8.4 X 10^8	2.0 X 10^16	3.5 X 10^10	2.0 X 10^13	1 X 10^14- 1 X 10^16	2 X 10^13	-	2 X 10^16- 1 X 10^17
Dielectric Strength, v/mil	400-600	600-800	600-900	250	400-600	400-700	500	-	500-1000
THERMAL PROPERTIES									
Service Temperature,F Min for Continuous Use Max for Continuous Use Heat Aging at 212F	-70 250 B-C	-65 225 B	-50 300 A	-65 250 B	-60 225 B-A	-178 600 A	-40 550 A	-50 275 B-A	-70 350 B-A
ENVIRONMENTAL RESISTANCE									
Ozone Oxidation Weathering Water Radiation	Poor Good Fair Excellent Fair-Good	Poor Good Fair Excellent Good	Excellent Excellent Excellent Excellent Poor	Poor Fair-Good Good Excellent Fair-Good	Very Good Very Good Very Good Good Good	Excellent Excellent Excellent Excellent Fair-Good	Outstanding Outstanding Excellent Good Fair-Good	Excellent Excellent Excellent Good Poor	Outstanding Excellent Outstanding Excellent Good

Type Of Process	Application	Product
Injection Molded Products	General Industrial	
Compression and Transfer Molded Products	Recreational	S. J.
Injection Molded Products	Recreational	
Injection Molded and Value-Added Assembly	Recreational	
Injection Molded Products	Recreational	
Compression and Transfer Molded Products	General Industrial	P10
Injection Molded Products	Recreational	
Injection Molded Products	Recreational	

Type Of Process	Application	Product
Injection Molded Products	Recreational	
Compression and Transfer Molded Products	General Industrial	
Injection Molded Products	Recreational	
Compression and Transfer Molded Products	Automotive	
Injection Molded Products	Recreational	
Compression and Transfer Molded Products	Recreational	
Injection Molded Products	Recreational	
Injection Molded Products	Recreational	

Type Of Process	Application	Product
Injection Molded Products	Recreational	
Injection Molded Products	Recreational	
Injection Molded Products	Recreational	
Compression and Transfer Molded Products	Recreational	
Compression and Transfer Molded Products	Lawn and Garden	
Die Cut	Water Treatment	
Compression and Transfer Molded Products	Recreational	
Compression and Transfer Molded Products	Recreational	

Type Of Process	Application	Product
Injection Molded Products	Recreational	· · · · · · · · · · · · · · · · · · ·
Compression and Transfer Molded Products	General Industrial	
Compression and Transfer Molded Products	Automotive	
Value-Added Assembly	Recreational	
Injection Molded Products	Automotive	
Compression and Transfer Molded Products	Personal Protective Equipment	
Compression and Transfer Molded Products	Recreational	
Value-Added Assembly	Recreational	

Application	Product
Recreational	
Recreational	
Recreational	
Recreational	
Recreational	9999
Recreational/ Steel Insert Overmold	
	Recreational Recreational Recreational Recreational