

# TECNOTHANE® industrial: Engineering elastomers with integrity

We offer a range of TECNOTHANE® engineering elastomers for use in industrial applications - both indoors and outdoors.

**TECNOELASTOMERI**  
Engineering Urethane Elastomers

**HUNTSMAN**  
Enriching lives through innovation

## TECNOTHANE® industrial

In factories of the future, where automated and robotic equipment is helping to speed up production throughout, our TECNOTHANE® elastomers can be used in pneumatic, hydraulic and mechanical equipment for conveying, lifting, picking and sorting. In heavy-duty, outdoor industrial equipment, our elastomers are a reliable material for use in cranes, diggers, dumper trucks, access platforms and compaction equipment. They can also be used to create dampening pads, which sit under railway tracks, to reduce noise and vibration.



### Technical properties

TYPICAL PHYSICAL PROPERTIES	COMPACT ELASTOMER			
	UNIT	TEST METHOD	MDE SERIES 6	MPC
Hardness	Sh	DIN 53505	80D	90A
Modulus 100%	MPa	DIN53504	-	5
Modulus 300%	MPa	DIN53504	-	15
Tensile strength	MPa	DIN53504	75	54
Elongation at break	%	DIN53504	10	600
Tear resistance, die B/a (90°, without nick)	kN/m	ISO 34-1	250	90
Tear resistance, die B/b (90°, with nick)	kN/m	ISO 34-1	250	45
Compression set at 70°C / 23h	%	ISO 815	-	20
Rebound resilience	%	ISO 4662	-	50
Abrasion resistance	mg	ISO 4649	>100	50
Minimum service temperature	°C	INTERNAL	-30	-30

TYPICAL PHYSICAL PROPERTIES	MICROCELLULAR ELASTOMER			
	UNIT	TEST METHOD	Evocell NST	Evocell TM3
Tensile strength	MPa	ASTM D3574E	3,5	4,5
Elongation at break	%	ASTM D3574E	350	390
Tear resistance (trouser specimen)	kN/m	ASTM D3574F	10	12
Compression set at 70°C / 23h	%	ASTM D3574d	2	4
Minimum service temperature	°C	INTERNAL	-45	-40
Density	g/cm <sup>3</sup>	ASTM D3574A	0,70	0,70
Available density range	g/cm <sup>3</sup>	ASTM D3574A	0,30-1,00	0,30-1,00
Ksta	MPa	INTERNAL	24	21
Kdyn/sta	-	INTERNAL	1,28	1,28
Thickness var. (fatigue)	%	INTERNAL	4	6
Ksta var. (fatigue)	%	INTERNAL	14	21
Minimum service temperature	°C	INTERNAL	-45	-40

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#### Europe

##### Tecnoelastomeri S.r.l.

Polyurethane Systems and Machines  
Via Magellano, 7/9/11  
41013 Castelfranco Emilia (MO) Italy  
Telephone +39 059 92 07 07

#### China

Huntsman Chemistry R&D Center (Shanghai) Co.  
No 479 Wen Jing Road  
Minhang Development Zone  
Shanghai 200245  
Telephone +86 21 3357 2883

#### Contact :

Nicolaas Weyns  
Sales Manager  
nicolaas\_weyns@huntsman.com

#### Contact :

Lesley Chi  
Business Head APAC  
lesley\_chi@huntsman.com

#### USA

Huntsman Polyurethanes  
2190 Executive Hills  
Boulevard  
Auburn Hills, MI 48326  
Telephone +1 248 322 7300

www.tecnoelastomeri.com  
www.huntsman.com

#### Contact :

Nicholas McNeal  
Sales Excellence Manager  
nicholas\_mcneal@huntsman.com

#### About Huntsman:

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