



HIGH PERFORMANCE

Polyuréthane

STRATHANE®
PIÈCES MOBILES



Custom parts - Springs - Rollers



HIGH PERFORMANCE POLYURETHANE CASTING



M serie	Hardness Shore A
Good chemical resistance	80
Excellent mechanical properties	90
High hardness available until 72 Sh D	95
Good hydrolisys resistance	98
Available for low tempature	99

R serie	Hardness Shore A
High abrasion resistance	50
Good oil solvant resistance	55 60
Tear resistance	65 70
Good resilience	75 80
Whole hardness range	90 95

U serie	Hardness Shore A
Load capacity	70
Superior dynamic properties	80
Excellent resistance to internal heat	92
Good chemicals resistance	95

T serie	Hardness Shore A
For food industry and water compliance	65 70 90 90 95

W serie	Hardness Shore A
Dampenning	25 35 45 55

R SERIE

Resistance to oils solvents chemicals acting

Superior abrasion resistance

Optimum tear resistance

Wide range of hardness

Hot casting moulding

Post curing in oven

Options

R-UV Uv resistance

R-AA Up grade abrasion loss

R-AF Fire resistance

R-AS Antistatic

		R				
Hardness	Shore a	45	50	55	60	65
Color						
Hardness tolerance		+- 5				
Production available		O.R	✓	✓	✓	✓

		R						
Dureté	Shore A	70	75	80	85	90	95	
Couleur								
Tolérance dureté		+- 5						
Production available		✓	✓	✓	✓	✓	✓	O.R

Optionnal color

Regarding quantity



		STRATHANE®								
		450 R	550R	600R	650R	700 R	750R	800 R	850 R	900R 950R
Specific gravity	g/cm3	1,20 - 1,22								
Temperature	°C	80°C continue 110° short times								
Tensile strenght	Mpa		31	37	43	54	56	56	57	56 47
Elongation break DIN 53504	%		615	550	530	520	520	520	515	515 465
10% Modulus DIN 53504	Mpa		0,5	0,6	0,7	1	1,2	1,6	2,3	3,1 4,9
100% Modulus DIN 53504	Mpa	1,6	1,8	2,3	2,9	8,2	4,5	5,3	6,9	8,4 11,2
300% Modulus DIN 53504	Mpa	-	2,9	4,3	5,8	6,5	9,6	11,4	15,2	16 20,5
Resilience DIN 53512	%	31	65	63	67	63	54	53	49	46 45
Tear strenght without nick	KN/m	8	42	48	61	73	80	92	105	120 138
Compression set ISO 815-1 22H 70°	%	5	38	32	31	28	25	23	24	29 31
Abrasion loss ISO 4649	mm3		20	20	20	20	20	25	25	30 30

The following information are value of results of tests are given in good faith without warranty

M SERIE

Resistance to oils solvants chemicals acting

Superior abrasion resistance

Optimum tear resistance

Wide range of hardness

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Post curing in oven

Options

R-UV Uv resistance

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Série M					
Hardness	Shore A	80	90	95	98 99
Color					
Hardness tolerance	+/- 3 Sh A				

Série M					
Hardness	Shore A	80	90	95	98 99
Production available		✓	✓	✓	✓

		STRATHANE®				
		420M	100M	167M	200M	315M
Hardness	Sh A	80	90	95	98	99
Hardness	Sh D				59	73
Specific gravity	g / cm3	1,09	1,10	1,13	1,15	1,17
Temperatrure	°C	80°C continue 110°C courte période				
Elongation break DIN 53504	Mpa	45	50	50	45	42
Tensile strenght DIN 53504	Mpa	500	480	470	410	305
10% Modulus DIN 53504	Mpa	2,1	3,7	5,5	13,5	34,9
100% Modulus DIN 53504	Mpa	5,9	8,6	12	19,8	33
300% Modulus DIN 53504	Mpa	13,2	19,7	24,8	31,4	42
Resilience DIN 53512	Mpa	45	42	39	45	48
Tear strenght without nick	Mpa	92	120	140	180	248
Compression set ISO 815-1 22H 70°	%	20	25	25	35	50
Abrasion loss ISO 4649	mm3	35	40	40	60	80
Friction coef		0,7	0,6	0,53		0,20

The following information are value of results of tests are given in good faith without warranty

Polyester 4 composants

Hot casting

Post curing in oven

Maturation times

Polyurethane for:

Very good dynamic properties

Good resistance to internal heat

High resilience

Série U

Hardness	Shore A	70	80	92
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Color			
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Hardness tolerance	+/- 3 Sh A
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Production	On request
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Option

Other color	
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STRATHANE®**70 U****80 U****92 U**

Specific gravity	g / cm3
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1,21

Temperature	°C
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80°C continuous
110°C short time

Tensile strenght	Mpa
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47

50

60

Elongation break DIN 53504	%
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490

470

430

10% Modulus DIN 53504	Mpa
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1,2

1,8

5

100% Modulus DIN 53504	Mpa
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3,2

4,8

10,6

300% Modulus DIN 53504	Mpa
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6,5

9,7

21,5

Resilience DIN 53512	%
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63

57

42

Tear strenght without nick	KN/m
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60

77

128

Compression set ISO 815-1 22H 70°	%
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20

25

25

Abrasion loss ISO 4649	mm3
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40

45

50

The following information are value of resluts of tests are given in good faith without warranty

.Approval**Food contact****Water ACS**

Polyester 3 composants

Hot casting

Post curing in oven

Maturation times

Production on request

		Série T				
Hardness	Shore A	65	70	80	90	95
Color		☐	☐	☐	☐	☐
Hardness tolerance		+/- 3				
Production		On request				

		STRATHANE®				
		650T	700T	800T	900T	950T
Hardness	Sh A	80	70	80	90	95
Hardness	Sh D					
Specific gravity	g / cm3	1,07	1,08	1,09	1,10	1,13
Temperature	°C	80°C continue 110°C courte période				
Tensile strenght	Mpa	27	29	35	41	41
Elongation break DIN 53504	Mpa	490	460	500	480	470
10% Modulus DIN 53504	Mpa	0.9	1.1	1.7	4.3	7.2
100% Modulus DIN 53504	Mpa	2.4	3.4	5	9.8	14.1
300% Modulus DIN 53504	Mpa	5.3	7.9	11	18.1	23.4
Resilience DIN 53512	%	75	74	66	53	47
Tear strenght without nick	KN/m	46	58	83	125	160
Compression set ISO 815-1 22H 70°	%	14	12	12	19	23
Abrasion loss ISO 4649	mm3	50	50	45	50	50

The following information are value of resluts of tests are given in good faith without warranty



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