



# PU 2000 series

**Trelleborg PU 2000 series** is a castable 3-component polyether based Polyurethane. The PU 2000 series is characterized by its high resistance to abrasion and hydrolysis and its excellent compression set. The perfect choice of material for critical applications in harsh and demanding environments.

**The PU 2000 series** is available in the broad hardness range of 60 ShA to 75 ShD. The PU 2000 series bonds well with other polymers and metals, and is available in different colors. All our products are compliant with the REACH & RoHS directives and our factories are ISO 9001 and ISO 14001 certified.

## Material properties

Hardness DIN 53504	60 ShA	65 ShA	70 ShA	75 ShA	80 ShA	85 ShA	90 ShA	95 ShA	55 ShD	60 ShD	65 ShD	70 ShD	75 ShD
Tensile Strength Mpa DIN 53504	18	21	24	30	36	40	41	42	45	47	47	45	40
10% Modulus Mpa DIN 53504	0,8	0,9	1,0	1,0	1,3	2,0	3,0	5,5	12	17	21	22	39
100% Modulus Mpa DIN 53504	2,1	2,3	3,0	3,5	4,5	5,8	7,7	11	15	20	23	27	26,8
200% Modulus Mpa DIN 53504	2,7	3,3	4,8	6,0	7,5	10,0	13,0	17	24	28	30	32	39,5
300% Modulus Mpa DIN 53504	4,0	5,5	8,0	11,0	13,0	18,0	22,5	28	38	41	41	42	-
Tear Strength kN/m ISO 34-1 Without Nick	34	40	50	55	62	80	94	120	138	165	176	186	239
Tear Strength kN/m ISO 34-1 With Nick	9	10	12	15	16	22	34	55	82	110	125	129	188
Elongation at Break % DIN 53504	450	420	400	390	380	370	360	360	340	320	320	315	250
Resilience % DIN 53512	72	69	65	52	45	37	35	40	47	50	52	52	52
Compression set % ISO 815-1 (22h/70°C)	5	6	7	8	9	10	14	18	22	-	-	-	-

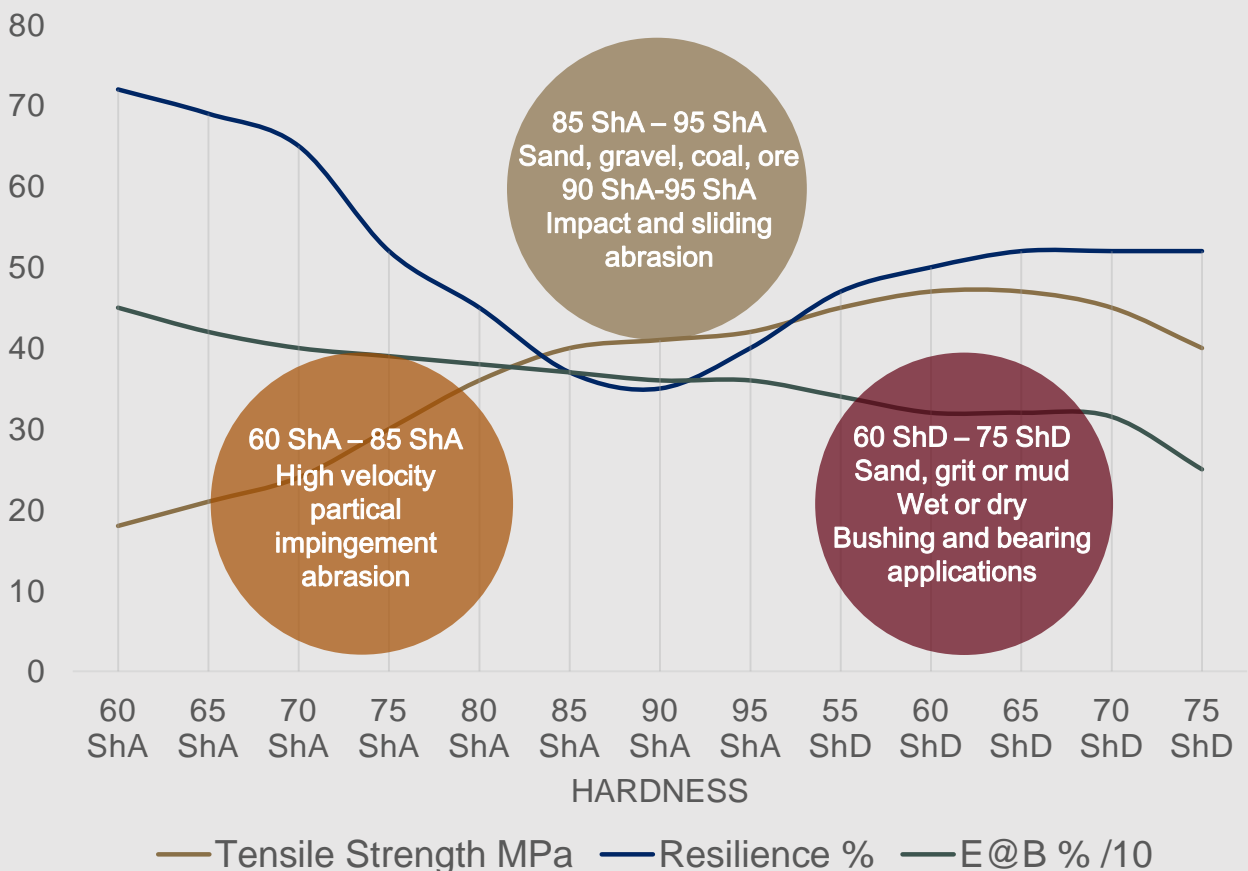
This table is for a general guide. It is not to be taken as definitive as unforeseen service factors can alter choice.

The material design should be selected based on the conditions of the application. The PU 2000 series is designed to withstand the impact from weather and ozone, suitable for outdoor applications.

The scale of hardness will have an impact on the abrasion resistance of the material and should be carefully selected according to the type of abrasive media and application.

The PU 2000 series also possess good resistance to oil, gasoline and most common chemicals. Additives enhance other properties such as resistance to UV-light and varying of the friction coefficient, making the PU 2000 series a versatile material.

**Trelleborg Moulded Components** delivers innovative and reliable solutions that maximize business performance to meet your needs. Contact us and we will support you with the optimal material design for your application need.



**TRELLEBORG**

For more information, please visit  
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