

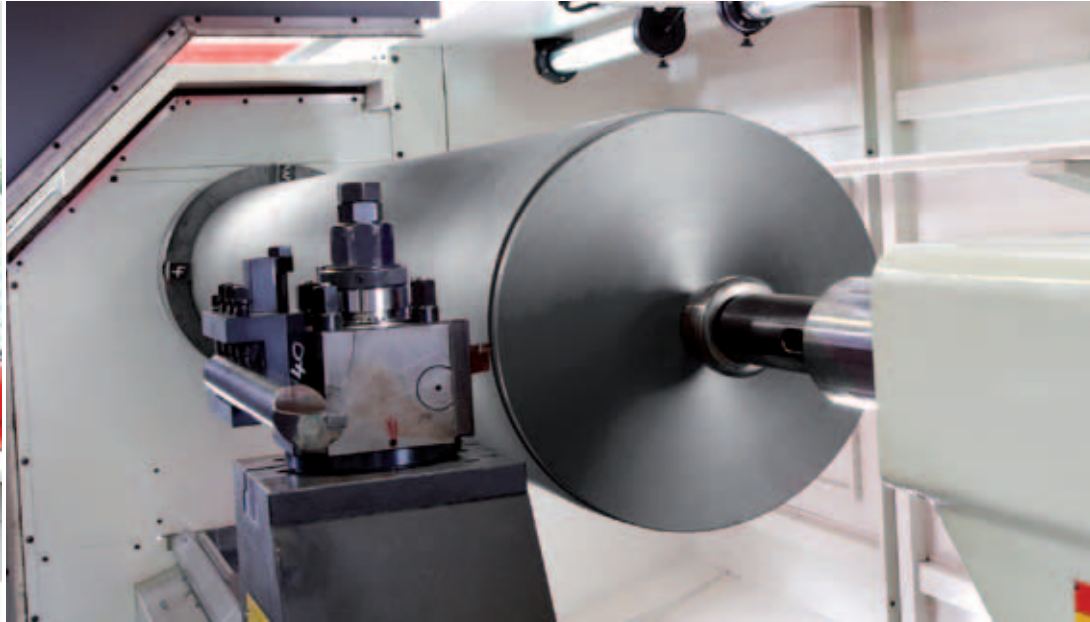
SIMONA



SIMONA[®] Hollow Rods

Efficient production of fittings and finished parts

Extensive portfolio – Substantial material savings



On account of their geometry, SIMONA® Hollow Rods are the ideal material for manufacturing fittings and finished parts by means of CNC lathe machining.

Extruded from PE 100, the hollow rods combine high chemical resistance with excellent processing properties, superior strength and high rigidity. Compared with solid rods, it is possible to achieve significant savings with regard to material and costs. The new product portfolio has been extended to include an extensive range of sizes and dimensions.

Fields of application

- Fittings manufactured by machining
- Miscellaneous finished parts

Advantages of PE 100

- Excellent processing capability
- High chemical resistance
- High corrosion resistance
- High abrasion resistance
- Excellent strength and rigidity
- High heat resistance
- UV-stabilised (permanent outdoor use possible)

Certificates

- Physiologically safe according to German Federal Institute for Risk Assessment 'BfR'
- EU food conformity 10/2011
- The materials used meet the quality requirements of the material lists issued by German Plastic Pipes Association 'KRV'



Material specifications and product range

Material specifications

	SIMONA® PE 100
Density, g/cm ³ , DIN EN ISO 1183	0.960
Elongation at yield, %, DIN EN ISO 527	9
Elongation at break, %, DIN EN ISO 527	600
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,100
Notched impact strength, kJ/m ² , DIN EN ISO 179	30
Shore hardness D, DIN EN ISO 868	65
Fire behaviour, DIN 4102	normal flammability
Temperature range, °C	-50 to +80
Physiologically safe according to BfR	✓



+ Financial benefits

In relation to solid rods, SIMONA® Hollow Rods offer significant savings in terms of material and costs.

+ Extensive product range

PE 100 Hollow Rods, black (length delivered: 2,000 mm)

Ø mm	d _i mm	Weight ^① kg/piece	Order no.
110	45	15.81	010020451
130	70	18.83	010020452
160	70	32.48	010020453
180	100	35.14	010020454
215	125	48.01	010020455
230	110	64.01	010020457
230	135	54.40	010020456
250	145	65.07	010020458
285	145	94.45	010020459
325	170	120.37	010020460
360	140	172.58	010020438
360	180	152.50	010020439
360	220	127.39	010020440
360	240	112.96	010020441

Ø mm	d _i mm	Weight ^① kg/piece	Order no.
370	220	138.85	010020461
410	180	212.90	010019782 ^②
410	225	184.30	010020442
410	250	165.67	010020443
460	225	252.55	010020444
460	240	241.61	010018827 ^②
460	250	233.92	010020445
510	240	317.70	010019783^②
510	250	310.01	010020446
510	315	297.40	010019784
640	315	486.94	010020447^②
640	420	365.86	010020448^②
710	500	398.65	010020449^②
810	500	637.12	010020450^②

^① All weights specified are considered to be theoretical values based on the nominal dimensions. Calculations are based on the effective weight determined.

^② Available from 3rd quarter of 2012.

Bold face: available immediately; light face: available on request
Special sizes available on request.

+ Very easy to process

SIMONA® Hollow Rods can be processed very efficiently by using various methods, including welding, milling, drilling, sawing, cutting and water-jet cutting.



SIMONA – Your partner for semi-finished products, fittings and finished parts

SIMONA is one of the few manufacturers worldwide to supply both semi-finished products and finished parts. We are able to offer you a number of tangible benefits, including customised shaping and the option of developing materials tailored to your particular requirements. State-of-the-art technology and our experience serve to ensure you get best-in-class results.

Technical services

- Structural design
- Machining
- Finishing
- Production of assemblies
- Annealing

On request we can produce fittings and finished parts on the basis of hollow rods from the SIMONA portfolio – our specialists will be pleased to discuss your particular requirements.



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