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Meriplen PP Pipes – Data Sheet

PP pipes are widely used for pressure and non-pressure applications with elevated temperatures or where excellent chemical resistance is required.

PP pressure pipes are produced by Plassim according to DIN 8077/8 up to 500mm in diameter in PP-H or PP-R material.

PP Material Properties

The following table indicates typical properties of PP material.

PROPERTY	METHOD	UNITS	PP-H 100	PP-R
Specific gravity	ISO 1183	g/cm³	0.915	0.905
Tensile stress at yield	ISO 527-2	MPa	31	24
Modulus of elasticity	ISO 527-2	MPa	1350	850
Charpy impact strength (23ºC)	ISO 179 notched	KJ/m²	11	40
Charpy impact strength (-30ºC)	ISO 179 notched	KJ/m²	2.9	2.0
Vicat softening point (50N)	ISO 306/A	ºC	150	133

Please note that the values for PP materials noted above are not be used as a reference standard for the testing of products. Pipes produced from these materials are tested according to the relevant product standards.

Pipe Dimensions

Nominal diameter (mm)	Wall Thickness (mm)		Ovality (Max. mm)	Standard length (m)
	SDR 17.6	SDR 11		
32	1.8	2.9	1.3	5.0
40	2.3	3.7	1.4	5.0
50	2.9	4.6	1.4	5.0
63	3.6	5.8	1.6	5.0
75	4.3	6.8	1.6	5.0
90	5.1	8.2	1.8	5.0
110	6.3	10.0	2.2	5.0
125	7.1	11.4	2.5	5.0
140	8.0	12.7	2.8	5.0
160	9.1	14.6	3.2	5.0
180	10.2	16.4	3.6	5.0
200	11.4	18.2	4.0	5.0
225	12.8	20.5	4.5	5.0
250	14.2	22.7	5.0	5.0
280	15.9	25.4	9.8	5.0
315	17.9	28.6	11.1	5.0
355	20.1	32.2	12.5	5.0
400	22.7	36.3	14.0	5.0
450	25.5	40.9	15.8	5.0
500	28.4	-	17.5	5.0