CROWN PPR PIPES

TECHNICAL SPECIFICATIONS & MATERIAL PROPERTIES

APPLICATIONS

- Hot & Cold potable water supply in residential and commercial buildings
- HVAC and compressed air system
- Pipe networks for rainwater utilization system
- Pipe networks for agricultural & horticultural use
- Pipe networks for swimming pool facilities
- Pipe networks for aggressive fluids (acidic, alkaline & corrosive chemicals etc.)

QUALITY

Crown Plastic products are designed to meet the harsh climate conditions of the GCC region and places emphasis on Quality, Reliability and Economy.

Crown Plastic follow strict in-house Quality Control and backed by testing through independent laboratories of international repute to certify the quality of pipes and fittings.

Crown Plastic do great emphasis on customer satisfaction through quality products. The company's operational excellence is evident through its established Quality management system which complies with ISO 9001 - 2015 standard, certified by quality Accreditation Bureau for Qualified Companies (QA QC), USA.

RAW MATERIALS

Crown Plastic PPR pipes are produced from the world's proven highest quality raw materials producers.

ADVANTAGES

- Very long life time with a guaranteed service life of 50 years
- Cost effective pipeline networks
- High impact strength & flexibility
- Damage resistance
- Damped vibrations and sounds are absorbed resulting to noise reduction
- Light weight, easy to install and low labour cost of installations
- Resistant to corrosion as compared to metal products
- Environment-friendly as it takes less energy to manufacture PPR pipes and are recyclable compared to its metal counterparts
- Hygienic and non-toxic compared to metal or other plastic products

COLOUR

The colour of Crown Plastic Products are available according to the standards and custom colour

PROPERTIES OF CROWN PPR PIPES

Physical Properties	Test Method	Value
Density at +23°C	ISO 1183	0,897g/cm^3
Melt mass-flow rate (MFR)	ISO 1133	
190° C/5.0kg		0,55g/10min
230°C/2.16kg		0,39g/10min
230°C/5.0kg		1,30g/10min

Machanical Properties	Test Method	Value
Tensile modulus	ISO 527-2/1	850Ma
Tensile stress	ISO 527-2/50	24,0Mpa
Tensile strain at yield to 50mm/ min 1,30g/10min	ISO 527-2/50	10%

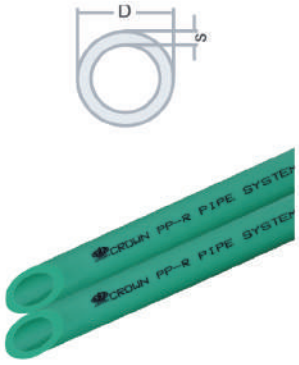
Impac	Test Method	Value
Charpy notched impact	ISO 179	
-30°C		2,50 kJ/m^2
0°C		4,00 kJ/m^2
23°C		22,00 kJ/m^2
Charpy - Un notched impact	ISO 179	
-30°C		43,00 kJ/m^2
0°C		no break kJ/m^2
23°C		no break kJ/m^2

Hardness	Test Method	Value
Shore hardness D	ISO 868	65
Ball indentation hardness	ISO 2039-1	48,0N/mm^2

Thermal Properties	Test Method	Value
Melting Tempreteure	ISO 3146	147°C
Thermal conductivity at 20°C	DIN 53612	0,24 W/mk
Coefficient of linear temperture	DIN 53752	1.5 10-4K
Vicat softening temperature		
(A50(50°Ch, 10N))	ISO 306/A50	132°C
(B50(50°C/h, 50N))	ISO 306/B50	69,0°C

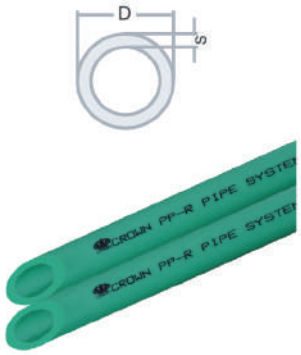
CROWN PPR PIPES

DIN:8077/78



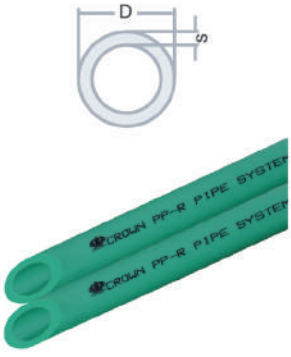
Parameters of PPR Pipe SDR11/PN10 in accordance to DIN 8077/78

PART	DIMENSIONS	WALL THICKNESS	INNER DIAMETER	PACKING UNIT	Kg/Mtr.
CPPR1020	20	1.9	16.0	100 Mtrs	0.107
CPPR1025	25	2.3	20.4	100 Mtrs	0.164
CPPR1032	32	2.9	26.2	40 Mtrs	0.261
CPPR1040	40	3.7	32.6	40 Mtrs	0.412
CPPR1050	50	4.6	40.8	20 Mtrs	0.638
CPPR1063	63	5.8	51.4	20 Mtrs	1.010
CPPR1075	75	6.8	61.4	16 Mtrs	1.410
CPPR1090	90	8.2	73.6	12 Mtrs	2.030
CPPR10110	110	10.0	90.0	8 Mtrs	3.010



Parameters of PPR Pipe SDR7.4/PN16 in accordance to DIN 8077/78

PART	DIMENSIONS	WALL THICKNESS	INNER DIAMETER	PACKING UNIT	Kg/Mtr.
CPPR1620	20	2.8	14.4	100 Mtrs	0.147
CPPR1625	25	3.5	18	100 Mtrs	0.229
CPPR1632	32	4.4	23.2	40 Mtrs	0.370
CPPR1640	40	5.5	29	40 Mtrs	0.578
CPPR1650	50	6.9	36.2	20 Mtrs	0.906
CPPR1663	63	8.6	45.8	20 Mtrs	1.426
CPPR1675	75	10.3	54.4	16 Mtrs	2.031
CPPR1690	90	12.3	65.4	12 Mtrs	2.880
CPPR16110	110	15.1	79.8	8 Mtrs	4.295



Parameters of PPR Pipe SDR6/PN20 in accordance to DIN 8077/78

PART	DIMENSIONS	WALL THICKNESS	INNER DIAMETER	PACKING UNIT	Kg/Mtr.
CPPR1620	20	3.4	13.2	100 Mtrs	0.172
CPPR1625	25	4.2	16.6	100 Mtrs	0.266
CPPR1632	32	5.4	21.2	40 Mtrs	0.432
CPPR1640	40	6.7	26.6	40 Mtrs	0.670
CPPR1650	50	8.3	33.4	20 Mtrs	1.040
CPPR1663	63	10.5	42.0	20 Mtrs	1.645
CPPR1675	75	12.5	50.0	16 Mtrs	2.340
CPPR1690	90	15.0	60.0	12 Mtrs	3.360
CPPR16110	110	18.3	73.4	8 Mtrs	5.008

CROWN PLASTIC

مصنع كراون للأنابيب البلاستيكية ذ.م.م

CROWN PLASTIC PIPES FACTORY L.L.C

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