

# TECHNICAL DATA SHEET



Control No.: QC/TDS/15/20 1-2

## PIPES APPLICATIONS FOR GENERAL PURPOSE PIPES

### STANDARD SPECIFICATION ASTM D 1784/1785; SCHEDULE 80 SOLVENT JOINT GREY

Test Property	Specification	Test Method
Cell Designation	12454-B	ASTM D 1784
Impact Izod	37.5 J/m of notch	ASTM D 256
Tensile Strength	49.8 Mpa	ASTM D 639
Modulus of Elasticity in Tension	2896 Mpa	ASTM D 639
Flattening Test	No cracking, no splitting, no blistering after compressing at 60% of O.D.	ASTM D 1785
Heat Deflection temp. @ 1.82 MPa	71°C	ASTM D 648
Vicat Softening	82°C	DIN 53460
Chemical test (Acetone)	Pipe shall not flake or disintegrated after immersed to acetone for 20 minute.	ASTM D 1785
Outside Diameter	(Refer to attached file for the specification)	ASTM D 1785
Wall Thickness	(Refer to attached file for the specification)	ASTM D 1785
Length	6000mm ± 10	ASTM D 1785
Sustained Pressure Test	The pipe shall not be fail, balloon, burst or weep under @ 23 °C water. (refer to the attached table for pressure)	ASTM D 1785
Burst test	The minimum burst of pipe shall be as per attached table @ 23° C water.	ASTM D 1785
Rating pressure	(Refer to attached file for the specification)	ASTM D 1785

#### Saudi Industries for Pipes Co.

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Size	Outside Diameter	Wall Thickness	Rating Pressure	Sustained Pressure	Burst Pressure Minimum	Test Method
½"	21.34 ± 0.1	3.73 + 0.51	850	1780	2720	ASTM D 1785
¾"	26.67 ± 0.1	3.91 + 0.51	690	1440	2200	ASTM D 1785
1"	33.40 ± 0.13	4.55 + 0.53	630	1320	2020	ASTM D 1785
1 ¼"	42.16 ± 0.13	4.85 + 0.58	520	1090	1660	ASTM D 1785
1 ½"	48.26 ± 0.15	5.08 + 0.61	470	990	1510	ASTM D 1785
2"	60.32 ± 0.15	5.54 + 0.66	400	850	1290	ASTM D 1785
3"	88.90 ± 0.20	7.62 + 0.91	370	790	1200	ASTM D 1785
4"	114.30 ± 0.23	8.56 + 1.02	320	680	1040	ASTM D 1785
6"	168.28 ± 0.28	10.97 + 1.32	280	590	890	ASTM D 1785
8"	219.08 ± 0.38	12.70 + 1.52	250	520	790	ASTM D 1785

**Note:** All measurement unit use is in mm and Psi for pressure unless otherwise specify.

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## PIPES APPLICATIONS FOR GENERAL PURPOSE PIPES

Control No.: QC/TDS/27/21 2-1

## STANDARD SPECIFICATION UPVC PIPES SCHEDULE 40; ASTM D 1785; SOLVENT JOINT WHITE

TEST PROPERTY	SPECIFICATION	TEST METHOD
Cell Designation	12454-B	ASTM D 1784
Impact Izod	80.1 J/m of notch	ASTM D 256
Tensile Strength	>48.3 Mpa	ASTM D 639
Modulus of Elasticity in Tension	>3880 Mpa	ASTM D 639
Flattening Test	No cracking, no splitting, no blistering after compressing at 60 % of O.D.	ASTM D 1785
Heat Deflection Temp. @ 1.82 MPa	71°C	ASTM D 648
Vicat Softening	82°C	DIN 53460
Chemical Test (Acetone)	Pipe shall not flake or disintegrated after immersed to acetone for 20 minutes.	ASTM D 1785
Outside Diameter	(Refer to attached file for the specification)	ASTM D 1785
Wall Thickness	(Refer to attached file for the specification)	ASTM D 1785
Length	6000mm ± 10	ASTM D 1785
Sustained Pressure Test	The pipe shall not be fail, balloon, burst or weep under @ 23 °C water. (refer to the attached table for pressure)	ASTM D 1785
Burst Test	The minimum burst of pipe shall be as per attached table @ 23° C water.	ASTM D 1785
Rating Pressure	(Refer to attached file for the specification)	ASTM D 1785

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Size	Outside Diameter	Wall Thickness	Rating Pressure	Sustained Pressure Test	Burst Pressure Minimum Req	Test Method
1/2"	21.34 ± 0.10	3.025 ± 0.255	600	1250	1910	ASTM D 1785
3/4"	26.67 ± 0.10	3.125 ± 0.255	480	1010	1540	ASTM D 1785
1"	33.4 ± 0.13	3.635 ± 0.255	450	950	1440	ASTM D 1785
1 1/4"	42.16 ± 0.15	3.815 ± 0.255	370	770	1180	ASTM D 1785
1 1/2"	48.26 ± 0.15	3.935 ± 0.255	330	690	1060	ASTM D 1785
2"	60.32 ± 0.15	4.165 ± 0.255	280	580	890	ASTM D 1785
3"	88.9 ± 0.20	5.82 ± 0.33	260	590	840	ASTM D 1785
4"	114.30 ± 0.23	6.375 ± 0.355	220	470	710	ASTM D 1785
6"	168.28 ± 0.28	7.54 ± 0.43	180	370	560	ASTM D 1785
8"	219.08 ± 0.38	8.675 ± 0.495	160	330	500	ASTM D 1785

**Note:** All measurement unit use in dimension is in mm and Psi for pressure unless otherwise specify.

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