

# TECHNICAL DATA SHEET



## PIPES APPLICATIONS

FOR SEWER AND DRAINAGE APPLICATIONS.

Control No.: QC/TDS/2/22 2-1

## STANDARD SPECIFICATION

SDR 41 SN 4; SASO ISO 4435 GREY /ORANGE

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	48.6 MPa	ASTM D 639	Passed
Modulus of Elasticity in Tension	3880 MPa	ASTM D 639	Passed
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648	Passed
Vicat Softening	> 79°C	EN 727	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 4435	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 4435	Passed
Length	Refer to the attached pipes dimension & pressure specification	SIP STANDARD	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride @15°C.	SASO ISO 4435	Passed
Impact Resistance	No broken and visibility of crack when tested after 1 hour conditioning @ 0°C (round the clock method)	SASO ISO 4435	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 4435	Passed
Pressure Rating	6 BAR	SASO ISO 1452	Passed
Hydrostatic Pressure Test 1 Hours	No ballooning, busting and weeping under test pressure of 21.50 kg/cm <sup>2</sup> @ 20°C water.	SASO 1395	Passed
Ring Stiffness Rating	Refer to the attached pipes dimension & ring stiffness specification.	SASO ISO 4435	Passed

Saudi Industries for Pipes Co.

Jeddah Commercial Centre, 3rd Floor, Al Maady Street, Corniche Al Hamra

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Size	Outside Diameter	Wall Thickness	Nominal Ring Stiffness	Status
200	200 + 0.5/ 0	4.90+ 0.7/ 0	SN 4	Passed
315	315 + 0.6/ 0	7.70+ 1 / 0		Passed
400	400 + 0.7/ 0	9.80 + 1.2/ 0		Passed
500	500 + 0.9/ 0	12.30+ 1.5/ 0		Passed

**Note:** All dimension unit are in mm unless otherwise specify.

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## PIPES APPLICATIONS

FOR SEWER AND DRAINAGE APPLICATIONS.

Control No.: QC/TDS/1/22 2-1

## STANDARD SPECIFICATION

SASO ISO 4435 SDR 34 SN 8 GREY / ORANGE PIPE

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	48.6 MPa	ASTM D 639	Passed
Modulus of Elasticity in Tension	3880 MPa	ASTM D 639	Passed
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648	Passed
Vicat Softening	> 79°C	EN 727	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 4435	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 4435	Passed
Length	Refer to the attached pipes dimension & pressure specification	SIP STANDARD	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride @15°C.	SASO ISO 4435	Passed
Impact Resistance	No broken and visibility of crack when tested after 1 hour conditioning @ 0°C (round the clock method)	SASO ISO 4435	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 4435	Passed
Pressure Rating	7.50 BAR	SASO ISO 1452	Passed
Hydrostatic Pressure Test 1 Hours	No ballooning, busting and weeping under test pressure of 25 kg/cm <sup>2</sup> @ 20°C water.	SASO 1395	Passed
Ring Stiffness Rating	Refer to the attached pipes dimension & ring stiffness specification.	SASO ISO 4435	Passed

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Size	Outside Diameter	Wall Thickness	Nominal Ring Stiffness	Status
200	200 + 0.5/ 0	5.90 + 0.8/ 0		Passed
315	315 + 0.6/ 0	9.20 + 1.20/ 0	SN 8	Passed
400	400 + 0.7/ 0	11.70 + 1.4/ 0		Passed
500	500 + 0.9/ 0	14.60 + 1.7/ 0		Passed

**Note:** All dimension unit are in mm unless otherwise specify.

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