

SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)
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TEST CERTIFICATE

NO : C1/0000212207

Issued To:
Client Code: (GULN01R1311)
RITES LIMITED
CENTRAL UNIVERSITY OF
KARNATAKA
KADAGANCHI
GULBARGA
KARNATAKA-585367
Kind Attn: MR NAVEEN KUMAR
TOPAGANTIMANAGER/CP

Date: : 02-03-2020
Job No: : 2002-1-141-1104
Booking No: : RG1920/1/13601
Booking Date: : 10-02-2020
Customer Ref No.: : RITIS/CP/MISSY/IIIMS-TOPANTH-II-MANGALAGIRI/2019-20
Customer Ref Dt.: : 23-12-2019
ULR NO.: : TCS44420000003252F



Job No- 2002-1-141-1104

ONE SAMPLE DESCRIBED AS PPR PIPE, 20 MM, MAKE - SFMC, SUB-C/O HOSPITAL & ACADEMIC CAMPUS, FOR ALL INDIA INSTITUTE OF MEDICAL SCIENCES AT MANGALAGIRI, DISTT GUNTUR [A.P.] AGENCY-M/S. L&T, AIIMS, MANGALAGIRI, WAS RECEIVED.

"THE SAMPLING WAS NOT CARRIED OUT BY SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. THE SAMPLE DESCRIPTION PROVIDED IN THE TEST CERTIFICATE ARE BASED ON DECLARATION BY THE SPONSOR."

As per IS 15801 : 2008 (Reaffirmed 2017)

S.NO	TESTS	RESULTS	REQUIREMENTS FOR SDR 11	CONFORMITY
1	Visual Appearance	The internal and external surfaces of the pipes are smooth, clean and free from grooving and other defects.	The internal and external surfaces of the pipes shall be smooth, clean and free from grooving and other defects.	Yes
2	Dimensions, mm			
	a) Outside Diameter	20.1	20±0.3	Yes
	b) Wall thickness			
	i) Minimum	3.0	1.9	No
	ii) Maximum	3.2	2.3	No
	c) Ovality	0.4	1.2 Maximum	Yes
3	Density at 27°C, kg/m ³	903	900-925	Yes
4	Reversion, %	0.4	2 Maximum	Yes
5	Opacity (Visible light transmittance), %	Nil	0.2 Maximum	Yes
6	Melt flow rate, g/10 min (at 230°C, 2.16 kg)		≤ 0.5	Yes

AUTHORISED SIGNATORY
EMPLOYEE CODE: (1159)

GC-01(Rev-05)

3/2

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7	Impact Strength (Energy: 15J, Temperature: 0±2°C)	No failure observed	Specimens shall not fail during the test, (shall not exceed 10 % of the specimens tested)	Yes
8	Hydraulic Characteristics			
	a) At induced stress 16 MPa and at 20°C for 1hr.	Sample does not show signs of localized swelling, leakage or weeping and does not burst during the prescribed test duration.	Shall not show signs of localized swelling, leakage or weeping and shall not burst during the prescribed test duration.	Yes
	b) At induced stress 3.8 MPa and at 95°C for 165 hrs.	Sample does not show signs of localized swelling, leakage or weeping and does not burst during the prescribed test duration.	Shall not show signs of localized swelling, leakage or weeping and shall not burst during the prescribed test duration.	Yes

DOR: 10.02.2020
 DOC: 02.03.2020

[Signature]
 AUTHORIZED SIGNATORY
 EMPLOYEE CODE: (4159)

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TEST CERTIFICATE

NO : C1/0000212205

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KARNATAKA-585367
Kind Attn: MR NAVEEN KUMAR
TOTAGANTI, MANAGER, CP

Date : 02-03-2020
Job No : 2002-1-141-1103
Booking No : RG1920/1/13694
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Customer Ref No. : RITES-CP/PMISSY/IIIMS-TQ/PATIL-HL/MANGALAGIRI/2019-20
Customer Ref Dt. : 23-12-2019
ULR NO. : TC51142099993251F



Job No- 2002-1-141-1103

ONE SAMPLE DESCRIBED AS PPR PIPE, 25 MM, MAKE - SFMC, SUB-C/O HOSPITAL & ACADEMIC CAMPUS, FOR ALL INDIA INSTITUTE OF MEDICAL SCIENCES AT MANGALAGIRI, DISTT GUNTUR [A.P]. AGENCY-NVS. L&T, AIIMS, MANGALAGIR, WAS RECEIVED.

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S.NO	TESTS	RESULTS	REQUIREMENTS FOR SDR II MARKED ON SAMPLE	CONFORMITY
1	Visual Appearance	The internal and external surfaces of the pipes are smooth, clean and free from grooving and other defects.	The internal and external surfaces of the pipes shall be smooth, clean and free from grooving and other defects.	Yes
2	Dimensions, mm			
	a) Outside Diameter	25.2	25+0.3	Yes
	b) Wall thickness			
	i) Minimum	3.5	2.3	No
	ii) Maximum	3.8	2.8	No
	c) Ovality	0.5	1.2 Maximum	Yes
3	Density at 27°C, kg/m ³	900	900-925	Yes
4	Reversion, %	0.2	2 Maximum	Yes
5	Opacity (Visible light transmittance), %	Nil	0.2 Maximum	Yes
6	Melt flow rate, g/10 min (at 300°C, 2.16 kg)		≤ 0.5	Yes

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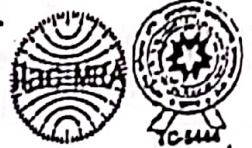
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TEST CERTIFICATE

NO : C1/0000212205



7	Impact Strength (Energy : 15J, Temperature: 0±2°C)	No failure observed	Specimens shall not fail during the test, (Shall not exceed 10 % of the specimens tested)	Yes
8	Hydraulic Characteristics			
	a) At induced stress 16 MPa and at 20°C for 1hr.	Sample does not show signs of localized swelling, leakage or weeping and does not burst during the prescribed test duration.	Shall not show signs of localized swelling, leakage or weeping and shall not burst during the prescribed test duration.	Yes
	b) At induced stress 3.8 MPa and at 95°C for 165 hrs.	Sample does not show signs of localized swelling, leakage or weeping and does not burst during the prescribed test duration.	Shall not show signs of localized swelling, leakage or weeping and shall not burst during the prescribed test duration.	Yes

DOR: 10.02.2020
 DOC: 02.03.2020

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