SanVent

P P - s
Fire Retardant
DIN 4102-B1 | UL V0 | UL V2

P P - E L - s
Flame retardant,
electrically conductive

P V D F
Fire Retardant
DIN 4102-B1 | UL V0

PP-s Ducting

Exhaust Ducting & Ventilation

SANGiR

Leaders In Exhaust Ducting & Ventilation

About Sangir

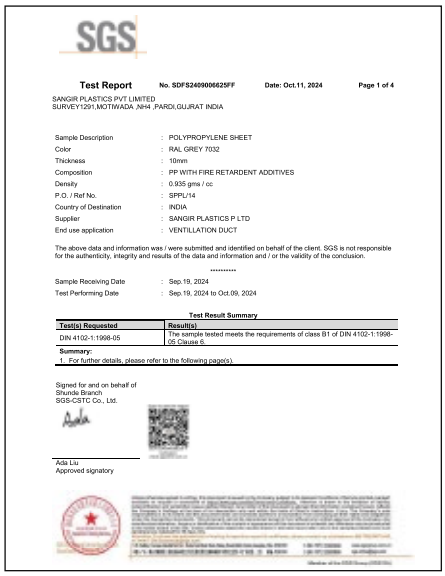
At Sangir, we strive to provide the most effective & cost-opti mized solutions to our customers. We associate and collabo-rate with them to provide end-to-end solutions. We benchmark ourselves with the best in the international market and produce products conforming to global standards in manufacturing and quality. Accredited with ISO 9001:2016, ISO 14001:2015 & ISO 45001:2018 Certifications, we pride ourselves As a quality manufacturer of specialty thermoplastic products and a complete solution provider across the entire spectrum of Industries.

Sangir produces a broad array and a wide range of thermoplastic products, which includes Piping Systems, Sheets, Liners, Profiles, and specialties in diverse thermoplastics such as PP, PPH, HDPE, PVDF, CPVC, PVC, and special anti-static, fire-re tardant, higher-temperature and Conductive Thermoplastic Grades

Manufacturing
4
Locations

45
Acres Factory Area

Capacity
40000
MT Per Annum



SGS

Test Report No. SDFS2409006625FF Date: Oct.11, 2024 Page 1 of 4

SANGIR PLASTICS PVT LIMITED
SURVEY1291,MOTWADA ,NH4 ,PARDI,GUJRAT INDIA

Sample Description	:	POLYPROPYLENE SHEET
Color	:	RAL GREY 7032
Thickness	:	10mm
Composition	:	PP WITH FIRE RETARDENT ADDITIVES
Density	:	0.935 gms / cc
P.O. / Ref No.	:	SPPL/14
Country of Destination	:	INDIA
Supplier	:	SANGIR PLASTICS P LTD
End use application	:	VENTILLATION DUCT

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

****

Sample Receiving Date	:	Sep.19, 2024
Test Performing Date	:	Sep.19, 2024 to Oct.09, 2024

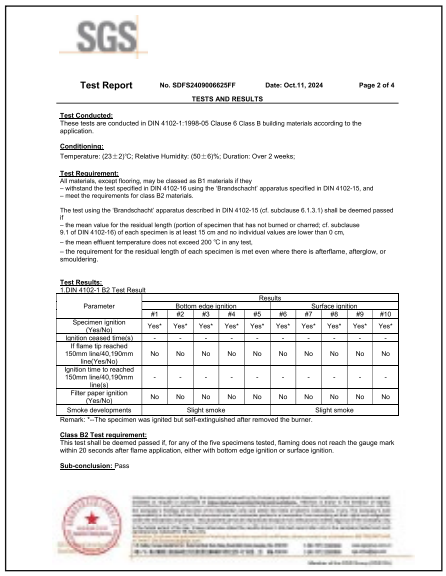
Test Result Summary

Test(s) Requested	Result(s)
DIN 4102-1:1998-05	The sample tested meets the requirements of class B1 of DIN 4102-1:1998-05 Clause 6.

Summary:
1. For further details, please refer to the following page(s).

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

Ada Liu
Approved signatory



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TESTS AND RESULTS

Test Conducted:
These tests are conducted in DIN 4102-1:1998-05 Clause 6 Class B building materials according to the application.

Conditioning:
Temperature: (23 ± 2)°C; Relative Humidity: (50 ± 6)%; Duration: Over 2 weeks;

Test Requirement:
All materials, except flooring, may be classed as B1 materials if they
– withstand the test specified in DIN 4102-16 using the 'Brandschacht' apparatus specified in DIN 4102-15, and
– meet the requirements for class B2 materials.

The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if
– the mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,
– the mean effluent temperature does not exceed 200 °C in any test,
– the requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

Test Results:
1.DIN 4102-1 B2 Test Result

Parameter	Results									
	Bottom edge ignition					Surface ignition				
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Specimen ignition (Yes/No)	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Ignition ceased time(s)	-	-	-	-	-	-	-	-	-	-
If flame tip reached 150mm line/40,190mm line(Yes/No)	No	No	No	No	No	No	No	No	No	No
Ignition time to reached 150mm line/40,190mm line(s)	-	-	-	-	-	-	-	-	-	-
Filter paper ignition (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments	Slight smoke					Slight smoke				

Remark: "-" The specimen was ignited but self-extinguished after removed the burner.

Class B2 Test requirement:
This test shall be deemed passed if, for any of the five specimens tested, flaming does not reach the gauge mark within 20 seconds after flame application, either with bottom edge ignition or surface ignition.

Sub-conclusion: Pass

CERTIFICATE

SANGIR PLASTICS PVT.LTD.

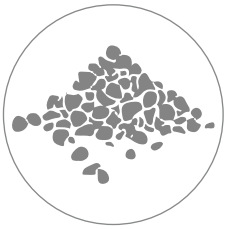
ISO 45001:2018

CERTIFICATE

SANGIR PLASTICS PVT.LTD.

ISO 14001:2015

Range Of Materials



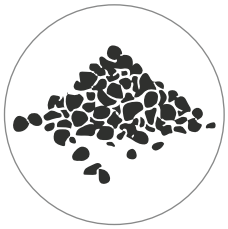
PP-s

Fire retardant
DIN 4102-B1 | UL V0 | UL V2

Working Temperature:
0° to +90° C

Chemical resistance:
High chemical resistance:
esp. solvents and alcohols

Application:
Inside



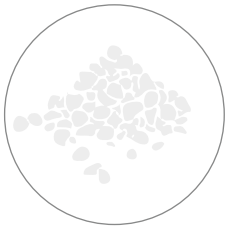
PP - EL-s

Flame retardant,
electrically conductive

Working Temperature:
0° to +90° C

Chemical resistance:
High chemical resistance:
esp. solvents and alcohols

Application:
Inside / Outside



PVDF

Fire retardant
DIN 4102- B1 | UL V0

Working Temperature :
-30° to +145° C

Chemical resistance:
High chemical resistance:
esp. halogens and oxidizing agents

Application:
Inside / Outside

WHY SanVent®

SanVent® piping is specifically designed and manufactured for ventilation and exhaust systems that transport corrosive fumes. It is superior in performance to PVC, fiberglass, and sheet metal systems due to its chemical resistance, mechanical properties, solid construction, and ease of installation. It is perfect for applications as diverse as Chlorination, Water & Waste-Water facilities, electro-plating and electro-coating shops, Pickling Lines and cold-roll-mills, Non-Ferrous metals Extraction plants, pharmaceuticals & bulk drug industries, Cleanrooms, Semi-conductor and Solar Cell Manufacturing Industries

No Condensation of Moisture Like in Case of GI or Metallic Ducts

No Internal & External Corrosion Like in case of GI or Metallic Ducts

No Free-Form Ferric-Oxide or Ferric-Hydroxide Ions floating in Air, which could affect product quality

No Noise induced by vibration propagated through the Duct, due to rotary equipment such as Blowers

Vibration is absorbed locally at source by Thermoplastic Ducting, ensuring Noise-Free operation

No Micro-Fibers in the Air, caused by Leaching of FRP or composite ducting, which could affect product quality

No Embrittlement Caused by UV Radiation, present in the Sunlight, like in case of FRP or Composite Ducting

Thermoplastic Ducting are perfectly inert to Acids, alkali and solvents present in the contaminated Exhaust or Fumes

Applications

Cleanrooms

Laboratories

Chemical Industry

Pharma & Bulk Drug Industry

Nuclear Power Industry

Solar Cell Manufacturing

Steel-Plant Pickling Lines

Non-Ferrous Metals Extraction Plant

Semiconductor Fab

Pre-made Polymer Ventilation Duct & Fittings Eliminate The Need For Customised Fabrication

Bends

Branch outlets
(T-Piece) 90°

Branch outlets
(T-Piece) 45°

Double sockets

Reducers

Flanges

Flexible
connectors

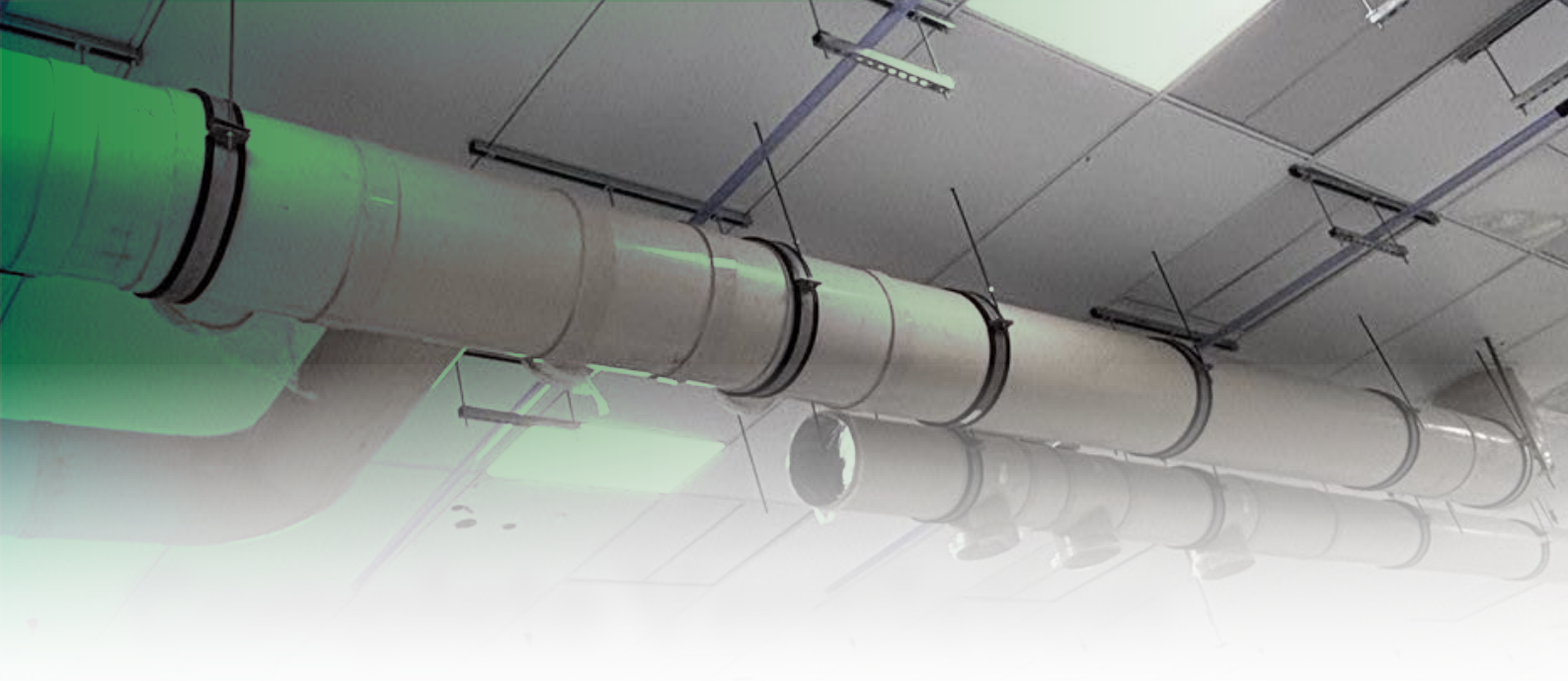
Damper valves
with handle

Damper valves
with control knob

Outlet with grilles
30° angled

End caps

Breech
90° Outlets



Complete Ventilation System

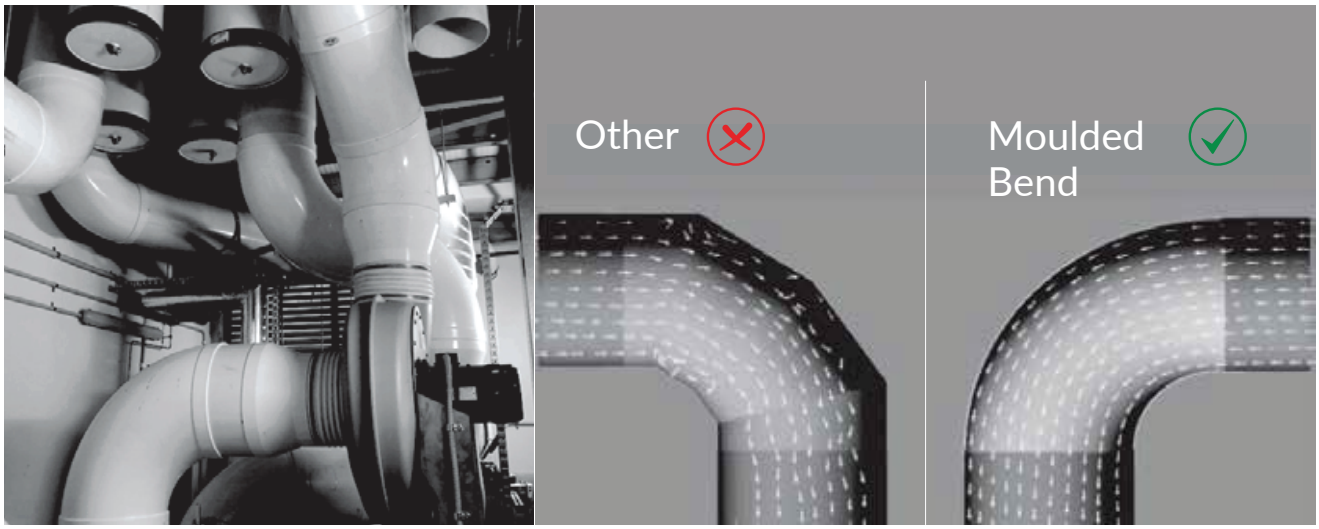
Available in a wide range of sizes, from 50 mm to 1000 mm diameter.

Comprehensive range of fittings including bends, branches, couplers, and reducers, minimizing the need for custom fabrication.

Manufactured through a controlled production process to ensure consistent dimensional accuracy, with joining collars provided on all openings for simplified assembly.

Suitable for exhaust and ventilation applications, including systems handling corrosive and volatile fumes.

Energy Efficient Ventilation System



Energy Savings via Improving Air Flow

Smooth internal surfaces that reduce pressure drops

Elimination of internal welds and spirals

Elimination of leaks common in sheet metal systems

Elimination of segmented bends

Lightweight Materials

Chemical & Corrosion resistant

Environmentally Safe

Quick and Easy installation with light weight supports & Hangers

Low Maintainance & Operation costs

SanVent

Corporate Office

Sangir Plastics Pvt. Ltd. Mandhana Enclave, Bangur Nagar, Goregaon
(West),
Mumbai-400104, Maharashtra, India.

Branch Offices :

Vadodara I Ahmedabad I Vapi I Bharuch I Kolkata I Bangalore I Delhi I Chennai I Pune I Hyderabad I Visakhapatnam

Manufacturing Sites :

Vapi - Gujarat I Jaipur - Rajasthan I Indore - Madhya Pradesh

sales@sangir.com +91 022 31007800

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