

TECHNICAL INFORMATION

PARAMETER	ASTRAL XLPE PRO SPECIFICATION
Material (ASTM C1427)	Chemically Cross Linked Closed Cell Polyethylene Foam Insuation
Temperature Range	(-)40° C to +115°C
Nominal Density	30 ± 3Kg/m ³
Thermal Conductivity	Mean Temperature (°C) W/m °K
	0 0.0318
	23 0.0329
	46 0.0382
Water Vapour Resistance Factor (μ) –mu EN 12086	97,900
Fire Characteristics (BS 476 Part 7 and 6) (For class 0)	a) Surface Spread of Flame : Class 1 As per BS 4 76 Part 7
	b) Fire Propagation : Class 'O' As per BS 4 76 Part 6
Reaction to Fire (For class 0)	Self Extinguishing, Non-toxic Ozone: Very Good
Dimensional Stability: BS 4370 Part 1	Change in dimension at -20° C for 4 hrs: <0.5% and at 110°C for 4 hrs: <0.5%
Compression Stregth @ 25%: ASTM D3575	0.44 Kg/cm ²
Resistance to Chemical: ASTM C543	No characteristic change observed
Tensile Stregth @ 50 mm/min: ASTM D3575	2.51 Kg/cm ²
Elongation at Break: ASTM D3575	133.2%
Fungal Resistance: ASTM G21	No growth observed
Volume % -age of closed cell: ASTM D6226 Part 2	>90%
Water Absorption by Volume- JIS K6767	0.00056 mg/m ²
Water Vapor Permeance EN 12086	Almost zero
Health & Safety Aspects	CFC / HCFC Free: Dust and Fibre Free
Emission of Volatile Organic Compound (VOC)	Negligible
Applications	HVAC, Textile & Building Industry, Chiller lines.

COMPARISON OF XLPE PRO & NITRILE RUBBER

XLPE PRO	NITRILE RUBBER
<ul style="list-style-type: none"> Thermal conductivity 0.032 W/m degree K Permeability resistance>14000 Zero water absorption < 0.2 Sturdy and easy to apply Inert material antimicrobial by default Green building rating system – low VOC emitting Low fire propagation index of 5.06 E-84 –Flame spread index / smoke develop index >15/5 (lower is better) Euroclass SBI corner index –no dripping & no toxic fumes large pipe sections up to 1200 mm dia. 	<ul style="list-style-type: none"> Thermal conductivity 0.036 W/m degree K Permeability resistance>7000 (poor UV resist.) Water absorption 5-20% by weight Soft material, external treatment must Special antimicrobial treatment needed GBC system–considerable amount of emission Fire propagation index of 7 & above (avgmtl) E-84 –Flame spread index / smoke develop index >25/50 (lower is better) Euroclass SBI corner index –no dripping but emits toxic fumes Pipe sections up to 80 mm dia.

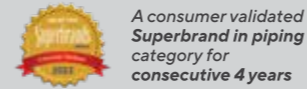
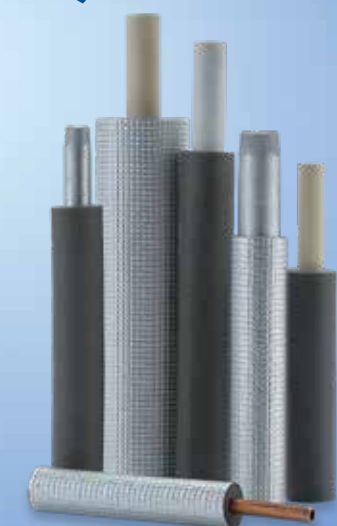


SCAN THE ABOVE QR-CODE TO EXPLORE ENTIRE RANGE OF ASTRAL XLPE PRO



XLPE PRO

CROSS-LINKED POLYETHYLENE (XLPE) INSULATION FOR PIPING



A consumer validated Superbrand in piping category for consecutive 4 years



INDIA'S MOST TRUSTED BRAND



Power of Desire India's Most Desired Brand based on TRA's Brand Trust Report 2022



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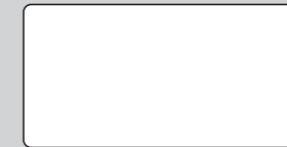
Please get in touch with us between 10 AM to 6 PM between Monday to Friday and the last Saturday of the month. We will remain closed on Public Holidays.



Astral Limited
CIN: L25200GJ1996PLC029134
Registered & Corporate Office:
207/1, 'Astral House', B/h Rajpath Club, off S. G. Highway, Ahmedabad - 380059, Gujarat, India. P: +91 79 6621 2000
E: sales@astralltd.com | For Export: export@astralltd.com
W: astralltd.com



Authorised Dealer:



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INTRODUCTION

Astral XLPE PRO insulation tubes are specially designed for plastic & metal piping system for applications in building construction and various other industries for plumbing, HVAC, chilling water lines thermal insulation etc.

Astral XLPEPro is produced using advanced manufacturing machineries & equipment setup which is capable of manufacturing the product in line with the international norms. High quality raw materials, standard manufacturing practices and quality management systems ensure Astral XLPE PRO to be the best quality end-product.



APPLICATION AREAS

- Pipe Insulation, Limiting Protection from Condensation.

SALIENT FEATURES

- Negligible water/ moisture absorption (>90 % closed cell)
- Wide operating temperature range : -40°C to +115°C
- Excellent thermal insulation
- Resistance to fungi & bacteria
- Chemically unreactive
- Stable K value
- Maintenance free
- Fibre free & dust free
- Flexible & easy to install

AVAILABLE PRODUCT RANGE

CLASS 1 PLAIN - 2 METRE										
Tube ID Ø (cm)	Insulation Thickness						Recommended For Nominal Pipe Size			
	6 mm		9 mm		13 mm		Coper & CPVC (CTS)		CPVC (IPS) / uPVC / MS / GI	
	Product Code	Std. Pkg.	Product Code	Std. Pkg.	Product Code	Std. Pkg.	cm	inch	cm	inch
1.59	IP-06.16.15N	330	IP-09.16.15N	200	IP-13.16.15N	150	1.5	½	-	-
2.23	IP-06.22.20N	250	IP-09.22.20N	160	IP-13.22.20N	115	2.0	¾	1.5	½
2.87	IP-06.28.25N	190	IP-09.28.25N	125	IP-13.28.25N	100	2.5	1	2.0	¾
3.5	IP-06.35.32.N	150	IP-09.35.32N	100	IP-13.35.32N	75	3.2	1¼	2.5	1
4.34	IP-06.43.40.N	100	IP-09.43.40N	70	IP-13.43.40N	60	4.0	1½	3.2	1¼
4.0	IP-06.50.40.N	90	IP-09.50.40.N	60	IP-13.50.40.N	50	-	-	4.0	1½
5.41	IP-06.54.50.N	80	IP-09.54.50N	60	IP-13.54.50N	40	5.0	2	-	-
5.0	IP-06.62.50.N	70	IP-09.62.50.N	40	IP-13.62.50.N	40	-	-	5.0	2
6.5	IP-06.75.65.N	50	IP-09.75.65.N	36	IP-13.75.65.N	32	-	-	6.5	2½
8.0	IP-06.91.80.N	40	IP-09.91.80.N	22	IP-13.91.80.N	20	-	-	8.0	3
10.0	IP-06.116.100.N	35	IP-09.116.100.N	18	IP-13.116.100.N	16	-	-	10.0	4

CLASS 0 PLAIN - 2 METRE										
Tube ID Ø (cm)	Insulation Thickness						Recommended For Nominal Pipe Size			
	6 mm		9 mm		13 mm		Coper & CPVC (CTS)		CPVC (IPS) / uPVC / MS / GI	
	Product Code	Std. Pkg.	Product Code	Std. Pkg.	Product Code	Std. Pkg.	cm	inch	cm	inch
1.59	IP-06.16.15.OP	330	IP-09.16.15.OP	200	IP-13.16.15.OP	150	1.5	½	-	-
2.23	IP-06.22.20.OP	250	IP-09.22.20.OP	160	IP-13.22.20.OP	115	2.0	¾	1.5	½
2.87	IP-06.28.25.OP	190	IP-09.28.25.OP	125	IP-13.28.25.OP	100	2.5	1	2.0	¾
3.5	IP-06.35.32.OP	150	IP-09.35.32.OP	100	IP-13.35.32.OP	75	3.2	1¼	2.5	1
4.34	IP-06.43.40.OP	100	IP-09.43.40.OP	70	IP-13.43.40.OP	60	4.0	1½	3.2	1¼
4.0	IP-06.50.40.OP	90	IP-09.50.40.OP	60	IP-13.50.40.OP	50	-	-	4.0	1½
5.41	IP-06.54.50.OP	80	IP-09.54.50.OP	60	IP-13.54.50.OP	40	5.0	2	-	-
5.0	IP-06.62.50.OP	70	IP-09.62.50.OP	40	IP-13.62.50.OP	40	-	-	5.0	2
6.5	IP-06.75.65.OP	50	IP-09.75.65.OP	36	IP-13.75.65.OP	32	-	-	6.5	2½
8.0	IP-06.91.80.OP	40	IP-09.91.80.OP	22	IP-13.91.80.OP	20	-	-	8.0	3
10.0	IP-06.116.100.OP	35	IP-09.116.100.OP	18	IP-13.116.100.OP	16	-	-	10.0	4

Note: Sizes above 4" and with different insulation wall thicknesses are available on request.



CLASS 1 WITH ALUPET FOIL - 2 METRE										
Tube ID Ø (cm)	Insulation Thickness						Recommended For Nominal Pipe Size			
	6 mm		9 mm		13 mm		Coper & CPVC (CTS)		CPVC (IPS) / uPVC / MS / GI	
	Product Code	Std. Pkg.	Product Code	Std. Pkg.	Product Code	Std. Pkg.	cm	inch	cm	inch
1.59	IP-06.16.15.NA	330	IP-09.16.15.NA	200	IP-13.16.15.NA	150	1.5	½	-	-
2.23	IP-06.22.20.NA	250	IP-09.22.20.NA	160	IP-13.22.20.NA	115	2.0	¾	1.5	½
2.87	IP-06.28.25.NA	190	IP-09.28.25.NA	125	IP-13.28.25.NA	100	2.5	1	2.0	¾
3.5	IP-06.35.32.NA	150	IP-09.35.32.NA	100	IP-13.35.32.NA	75	3.2	1¼	2.5	1
4.34	IP-06.43.40.NA	100	IP-09.43.40.NA	70	IP-13.43.40.NA	60	4.0	1½	3.2	1¼
4.0	IP-06.50.40.NA	90	IP-09.50.40.NA	60	IP-13.50.40.NA	50	-	-	4.0	1½
5.41	IP-06.54.50.NA	80	IP-09.54.50.NA	60	IP-13.54.50.NA	40	5.0	2	-	-
5.0	IP-06.62.50.NA	70	IP-09.62.50.NA	40	IP-13.62.50.NA	40	-	-	5.0	2
6.5	IP-06.75.65.NA	50	IP-09.75.65.NA	36	IP-13.75.65.NA	32	-	-	6.5	2½
8.0	IP-06.91.80.NA	40	IP-09.91.80.NA	22	IP-13.91.80.NA	20	-	-	8.0	3
10.0	IP-06.116.100.NA	35	IP-09.116.100.NA	18	IP-13.116.100.NA	16	-	-	10.0	4

CLASS 0 WITH ALUPET FOIL - 2 METRE										
Tube ID Ø (cm)	Insulation Thickness						Recommended For Nominal Pipe Size			
	6 mm		9 mm		13 mm		Coper & CPVC (CTS)		CPVC (IPS) / uPVC / MS / GI	
	Product Code	Std. Pkg.	Product Code	Std. Pkg.	Product Code	Std. Pkg.	cm	inch	cm	inch
1.59	IP-06.16.15.OA	330	IP-09.16.15.OA	200	IP-13.16.15.OA	150	1.5	½	-	-
2.23	IP-06.22.20.OA	250	IP-09.22.20.OA	160	IP-13.22.20.OA	115	2.0	¾	1.5	½
2.87	IP-06.28.25.OA	190	IP-09.28.25.OA	125	IP-13.28.25.OA	100	2.5	1	2.0	¾
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5.0	IP-06.62.50.OA	70	IP-09.62.50.OA	40	IP-13.62.50.OA	40	-	-	5.0	2
6.5	IP-06.75.65.OA	50	IP-09.75.65.OA	36	IP-13.75.65.OA	32	-	-	6.5	2½
8.0	IP-06.91.80.OA	40	IP-09.91.80.OA	22	IP-13.91.80.OA	20	-	-	8.0	3
10.0	IP-06.116.100.OA	35	IP-09.116.100.OA	18	IP-13.116.100.OA	16	-	-	10.0	4

Note: Sizes above 4" and with different insulation wall thicknesses are available on request.

