

CONSTRUCTION :

Gangotri Permanently Lubricated HDPE Ducts are formed by co extrusion technique and are used for laying Optical Fiber Cables as underground ducting / conduits.

MATERIAL :

The base raw material being used for the manufacturing Permanently Lubricated Ducts is High Density Poly Ethylene. The grade of raw material is ultra violet grade and is confirming to IS:7328-1 992 & IS :2523 or ISO: 1183 & ISO: 1133 and is designated as PEELA-50T-012 (CACTAApproved) and inner layer permanently lubricated material DOW CORNING grade-50MB002.

APPLICATIONS :

Telecommunication, Computer Network, Automatic Signaling, Railways Information Network, Highways, Cable Service Providers, Broad Band networks Electric cable installation etc.

ADVANTAGES :

- Reduction of stress on cable during installation.
- Installation of Longer lengths made feasible.
- Negotiations of cable movement through bends and deflections are easier.
- Reduction of numberofjoints and minimizes numberof splices.
- Faster and easy installation of cable with lesser man power.
- Reduction of overall cost of installation, maintenance and future upgrades.
- Retains it's properties throughout it's life
- Existing cables can be deployed after de-blowing from the duct.
- This does not have toxic and dermatic hazards and is safe handling.

DIMENSIONS: (DOT & ISO) All sizes in mm

S.No.	Duct Size	Outer Dia	Ovality (Max)	Wall Thickness	Standard Length
1.	32/26	32 ± 0.3	1.3	3.0 ± 0.2 mm	500/1000 Mtrs.
2.	40/33	40 ± 0.4	1.4	3.5 ± 0.2 mm	500/1000 Mtrs.
3.	50/42	50 ± 0.5	1.4	4.0 ± 0.3 mm	500/1000 Mtrs.
4.	63/50	63 ± 0.6	1.5	6.5 ± 0.40 mm	6/12/50/100/500 Mtrs.
5.	110/80	110 ± 1.0	2.2	15 ± 0.60 mm	6/12/50/100 Mtrs.

Next



Properties :

S.No.	Test Description	Test Method	Test Requirement
1.	Dimension (a) Outside diameter (b) Ovality (c) Wall thickness	TEG/GR/TX/CDS - 008/03/MAR 11	As per Table
2.	Visual inspection	TEG/GR/TX/CDS - 008/03/MAR 11	As per Specifications
3.	Density at 23° C GMS/CC	S:7328, IS 2330	0.940-0.958
4.	Melt Flow Index at 190° C	S:7328, IS 1133	0.2 to 1.1
5.	Tensile Strength at yield	S: 14151-Part-1 ISO:6259	Min 20N/mm ²
6.	Elongation at break	S: 14151-Part-1 ISO:6259	Min 500%
7.	co-efficient of friction	S: 14151-Part-1 ISO:6259	<0.06
8.	Impact strength	S: 14151-Part-1 ISO:62590	No Split or Crack
9.	Oxidation Induction time	S: 14151-Part-1 ISO:6259	>30 Minutes
10.	Environmental Stress & Crack resistance	ASTMD-1693	No Split or Crack
11.	Heat reversion	S : 4984	Change C 3 %
12.	Internal Hydrostatic Pressure creep rupture	S:4984 & ISO: 1167	Passes

All above mentioned test on PLB HDPE DUCTS are conducted in-house as per DOT specification

No. GR/CDS-08/02 Nov 2004

Associated Accessories & Tools :

1. Plastic Coupler : To join two duct lengths - air tight and water tight.
2. End Plug : To seal duct ends prior to the installation of the cable.
3. Cable Sealing Plug : To seal duct ends after insertion of the cable.
4. End Cap : Made of hard rubber, fitted on both ends of duct coil after manufacturing.
5. Duct Cutter : To cut duct cleanly and with square ends.
6. C Spanner : To tighten plastic coupler.

ISI LICENCES & OTHER APPROVALS

ISI LICENCES		
Sr. No.	Products Name	IS NO.
1.	Specifications for high density polyethylene pipes for portable water supplies PE 63 PE 80 PE 100 20 MM to 315 MM in all pressure classes	IS 4984: 2016
2.	Quick Coupled Polyethylene pipes fitted with HDPE Couplers, for Sprinkler Irrigation System	IS 14151(Pt.2):2008
3.	Irrigation Equipment- polyethylene pipes for Irrigation laterals- Specification	IS 12786:1989
4.	Irrigation equipment - Emitters - 4 LPH, 8 LPH	IS 13487 : 92
5.	BSNL - TSEC	TEC/GR/TX/CDS-0008/03.MAR-11 WITH AMND. NO.1 LTD. 25/28.03.2013
6.	ACETAL GUIDE - BUSH	SPECN./ STR NO. C-8215 REV.2 AMD.1

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Aaram Plastics Pvt. Ltd.

(An ISO 9001:2000 Certified Company)

A Trusted Name in HDPE Pipes of International Standards