



# 46GP009UV

## HIGH DENSITY POLYETHYLENE FOR TELECOM DUCTS

HD46GP009UV is a natural pipe extrusion grade & possesses bimodal molecular weight distribution, which improves process ability and mechanical properties of pipe.

46GP009UV is UV stabilized grade & is suitable for producing Cable ducts for Optical fibers and other general-purpose application. The grade is designed to sustain outdoor exposure of 12 months. Designation of 46GP009UV as per IS 7328-1992 is PE ELAN C45 T012 & also conforms to TEC generic requirements No. GR/CDS-08/02/Nov-2004.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5.0 kg)	ASTM D1238	gm/10 min	< 1.1
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.946
O.I.T.	ASTM D3895 Cu pan, 200°C	min	> 30
Tensile Strength at Yield	ASTM D638	Mpa	24
Elongation at Yield	ASTM D638	%	11
Elongation at Break	ASTM D638	%	> 350
ESCR	ASTM D1693	hr	> 1000
Flexural Modulus @ 1% Strain	ASTM D790	MPa	750
Hardness	ASTM D2240	Shore D	63
Heat Deflection Temperature at 45g/mm <sup>2</sup>	ASTM D 648	°C	72

\*Typical values not to be taken as specification

\*\*Mechanical Properties are on Compression moulding

### Applications

Ducts for optical fibre cables & General purpose applications

### Regulatory Information

- Meets the requirements stipulated in standard IS : 10146-1982 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141-1982. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers.

### Storage Recommendations

- Bags should be stored in dry/ closed conditions at temperatures below 50°C and protected from UV/ direct sunlight.