



# DI650I HIGH DENSITY POLYETHYLENE FOR TELECOM DUCTS

DI650I is a UV Stabilised High Density Polyethylene grade with broad molecular weight distribution, suitable for producing Cable Duct for Optic Fibre and other general purpose cables. The compound offers good processing characteristics, improved melt strength and can withstand outdoor exposure of 12 months. Relene D I650I conforms to TEC Generic requirements No. GR/CDS-08/02. NOV'2004

| Typical Characteristics*  |                               |          |                 |
|---------------------------|-------------------------------|----------|-----------------|
| Property                  | Test Method                   | Unit     | Typical Value** |
| Density (23°C)            | ASTM D1505                    | g/cc     | 0.948           |
| MFI (190°C/2.16 kg)       | ASTM D1238                    | g/10 min | 0.30            |
| Tensile Strength at Yield | ASTM D638                     | MPa      | 22              |
| Elongation at Break       | ASTM D638                     | %        | 500             |
| Flexural Modulus          | ASTM D790                     | MPa      | 900             |
| Vicat Softening Point     | ASTM D1525                    | °C       | 125             |
| Oxidation Induction Time  | ASTM D3895<br>(AL Pan, 200°C) | Min      | >50             |

\*Typical values not to be taken as specification

\*\*Mechanical Properties are on Compression moulding

## Applications

Ducts for optical fibre cables and General Purpose Application

## Regulatory Information

- Meets the requirements stipulated in standard IS : 10146 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. 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.