



# HD55EF010 HIGH DENSITY POLYETHYLENE FOR MONOFILAMENTS

HD55EF010 is a High Density Polyethylene (HDPE) grade, specially formulated to manufacture oriented monofilament products. It has narrow molecular weight distribution and has very good processability, less motor load and high output combined with very good elongation and filament properties to make it a grade of choice.

| Typical Characteristics*        |             |                    |                 |
|---------------------------------|-------------|--------------------|-----------------|
| Property                        | Test Method | Unit               | Typical Value** |
| Melt Flow Index (190°C/2.16 kg) | ASTM D1238  | gm/10 min          | 1.0             |
| Density (23°C)                  | ASTM D1505  | gm/cm <sup>3</sup> | 0.955           |
| Tensile Strength at Yield       | ASTM D638   | MPa                | 23              |
| Elongation at Yield             | ASTM D638   | %                  | 15              |
| Flexural Modulus                | ASTM D790   | MPa                | 820             |
| Notched Izod Impact Strength    | ASTM D256   | J/m                | No Break        |
| Vicat Softening Point           | ASTM D1525  | °C                 | 127             |

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Injection Moulded Specimen

## Applications

Monofilaments.

## 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.