



# HD50MA180

## HIGH DENSITY POLYETHYLENE FOR HIGH FLOW INJECTION MOULDED PRODUCTS

HD50MA180 is a high flow High Density Polyethylene (HDPE) grade. This grade is specially formulated to manufacture large, intricate, thin walled multi cavity injection moulded products. It has narrow molecular weight distribution, which makes it easier to process and products manufactured have good gloss and rigidity.

| Typical Characteristics*        |             |                    |                 |
|---------------------------------|-------------|--------------------|-----------------|
| Property                        | Test Method | Unit               | Typical Value** |
| Melt Flow Index (190°C/2.16 kg) | ASTM D1238  | gm/10 min.         | 20.0            |
| Density (23°C)                  | ASTM D1505  | gm/cm <sup>3</sup> | 0.950           |
| Tensile Strength at Yield       | ASTM D638   | MPa                | 22              |
| Elongation at Yield             | ASTM D638   | %                  | 12              |
| Flexural Modulus                | ASTM D790   | MPa                | 900             |
| Notched Izod Impact Strength    | ASTM D256   | J/m                | 30              |
| Vicat Softening Point           | ASTM D1525  | °C                 | 123             |

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Injection Moulded Specimen

### Applications

Houseware, storage bins, thin wall moulding.

### 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:CDR Title 21, 177. 1520, Olefin polymers.

### Storage Recommendations

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