



HD53MA020 HIGH DENSITY POLYETHYLENE

CAPS & CLOSURES

HD53MA020 is a High Density Polyethylene grade, specially designed and recommended for manufacture of technical moulding articles such as caps and closures for various applications. It has a very narrow molecular weight distribution, which makes it very much suitable for injection moulding and products manufactured have very good gloss, impact strength and rigidity.

| Typical Characteristics* | | | |
|---------------------------------|-------------|--------------------|-----------------|
| Property | Test Method | Unit | Typical Value** |
| Melt Flow Index (190°C/2.16 kg) | ASTM D1238 | gm/10 min | 2.0 |
| Density (23°C) | ASTM D1505 | gm/cm ³ | 0.953 |
| Tensile Strength at Yield | ASTM D638 | MPa | 26 |
| Elongation at Break | ASTM D638 | % | 800 |
| Flexural Modulus | ASTM D790 | MPa | 1,000 |
| Notched Izod Impact Strength | ASTM D256 | J/m | 300 |
| Hardness | ASTM D785 | Shore D | 64 |
| Vicat Softening Point | ASTM D1525 | °C | 121 |

*Typical Characteristics and not to be taken as specifications

**Mechanical Properties are on Injection Moulded Specimen

Applications

Caps and closures.

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.