



# HD53MA020

## HIGH DENSITY POLYETHYLENE CAPS & CLOSURES

HD53MA020 is a low MI 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 <sup>3</sup>	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 : 10146-1982 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.