

**RELENE B 56003**

**BLOW MOULDING GRADE**

Relene B 56003 is a High Density Polyethylene grade suitable for general purpose extrusion blow moulding applications. Articles blown from this grade exhibit good stiffness. The resin offers good melt strength, ESCR and impact resistance & typically used for packaging of oil, vanaspati, general purpose containers, jerry can etc.

**Physical Characteristics :**

<u>Property</u>	<u>Unit</u>	<u>Test Method</u>	<u>Value</u>
Density	g/cc	ASTM D 1505	0.956
MFI (2.16 kg)	g/10 min	ASTM D 1238	0.30

**Typical Properties :**

<u>Property</u>	<u>Unit</u>	<u>Test Method</u>	<u>Value</u>
Tensile Strength at Yield	MPa	ASTM D 638	26
Elongation at break	%	ASTM D 638	550
Flexural Yield Strength	MPa	ASTM D 790	28.5
Flexural Modulus	MPa	ASTM D 790	900
Hardness	Shore D	ASTM D 2240	69
Vicat Softening Point	°C	ASTM D 1525	128

**Processing with Relene B 56003 :**

- Melt temperature in range of 175 - 205°C are recommended.
- Normally, temperature of 190 - 205°C will result in optimum ESCR properties

PE 0901

*\* Typical values with injection moulded specimens, not to be taken as specification*

*HDPE grade Relene B 56003 meets the requirements stipulated in standard IS:10146-1982 on “Specifications for Polyethylene for its 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 Polymer.*

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