



LINEAR POLYETHYLENE

RELENE M 60075/L 60075 - INJECTION MOULDING GRADE

Relene M 60075 is a High Density Polyethylene grade suitable for injection moulding applications where good mechanical properties, gloss, dimensional stability & good ESCR are required. The grade is recommended for technical mouldings like crates, luggage shells, helmets, defence applications etc.

UV Stabilised version, Relene L 60075 is also available with recommended service life of more than 5 years. Relene L 60075 is suitable for applications where articles are exposed to sunlight e.g. soft drink crates, defence applications, helmets, paint-pails, etc.

Physical Characteristics

Property	Unit	Test Method	Value
Density	g/cc	ASTM D 1505	0.960
MFI (2.16 Kg)	g/10 min.	ASTM D 1238	8.2

Typical Properties

Property	Unit	Test Method	Value*
Tensile Strength at Yield	MPa	ASTM D 638	25
Elongation at Break	%	ASTM D 638	800
Flexural Yield Strength	MPa	ASTM D 790	30
Flexural Modulus	MPa	ASTM D 790	900
Hardness	Shore D	ASTM D 2240	69
Vicat Softening Point	°C	ASTM D 1525	128
Izod Impact Strength	J/m	ASTM D 256	88

Processing with Relene M 60075/L 60075:

During injection moulding melt temperature in range of 220°C-250°C results in good mouldability with balanced mechanical properties of end products.

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

PE-0901

HDPE grade Relene M/L 60075 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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