



# LL36RA045

## LINEAR LOW DENSITY POLYETHYLENE ROTOMOULDING APPLICATION

LL36RA045 is a Butene Comonomer based Linear Medium Density Polyethylene. This grade when blended with appropriate quantity of carbon black can withstand continuous exposure. LL36RA045 when pulverised into 20-30 mesh powder offers good processability. This grade has very good Environmental Stress Crack Resistance (ESCR) and a combination of hardness and impact strength. This grade contains normal dose of antioxidant.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value
Melt Flow Index (190°C/2.16 kg)	ASTM D1238	gm/10 min	4.5
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.936
Tensile Strength at Yield <sup>1</sup>	ASTM D638	kg/cm <sup>2</sup>	180
Elongation at Yield	ASTM D638	%	20
Flexural Modulus <sup>2</sup>	ASTM D790	kg/cm <sup>2</sup>	6,000
Notched Izod Impact Strength <sup>3</sup>	ASTM D256	kg.cm/cm	25.0
ESCR (F-50, 10% Igepal)	ASTM D1693	hr	>350
Hardness	ASTM D2240	D	55
Vicat Softening Point	ASTM D1525	°C	117

\*Typical Characteristics and not to be taken as specifications

1. Compression moulded test specimen (2.0 mm thick)
2. Compression moulded test specimen (3.2 mm thick)
3. Injection moulded test specimen (3.2 mm thick)

### Applications

Overhead water tank, loft tank, litter bin etc.

### 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.

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