



# **LL36RA045**

## LINEAR LOW DENSITY POLYETHYLENE ROTOMOULDING APPLICATION

LL36RA045 is a Butene Comonomer based Linear Low Density Polyethylene. This grade when blended with appropriate quantity of carbon black can withstand continuous outdoor 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/cm³	0.936
Tensile Strength at Yield	ASTM D638	MPa	18
Elongation at Yield	ASTM D638	%	20
Flexural Modulus <sup>2</sup>	ASTM D790	kg/cm²	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

<sup>\*</sup>Typical Characteristics and not to be taken as specifications

- I. 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 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.

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