



# JLL36RA045

# JLL36RA045UV

## LINEAR LOW DENSITY POLYETHYLENE

### Rotomoulding Application

JLL36RA045 is a Butene Comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidants. This grade when blended with appropriate quantity of carbon black can withstand continuous exposure. This grade when pulverized into 20-30 mesh powder offers good processability. This grade has very good ESCR and balance of impact and stiffness. JLL36RA045UV is a UV Stabilized version of JLL36RA045.

#### Additives details:

JLL36RA045: ● Heat Stabilizer: Yes      ● UV Stabilizer: No  
JLL36RA045UV: ● Heat Stabilizer: Yes      ● UV Stabilizer: Yes

#### TYPICAL CHARACTERISTICS\*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density (23°C)	ASTM D 792	g/cc	0.936
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	g/10 min	4.5
<b>Molded properties **</b>			
Tensile Strength at Yield	ASTM D 638	MPa	18.0
Elongation at Break	ASTM D 638	%	>750
Flexural Modulus	ASTM D 790	MPa	700
Notched Izod Impact Strength	ASTM D 256	J/m	150
ESCR (F50, 10% Igepal)	ASTM D 1693 B	Hrs	>350
Hardness	ASTM D 2240	Shore D	50
Vicat Softening Point	ASTM D 1525	°C	114

\* Typical characteristics and not to be taken as specifications

\*\*Typical values on compression moulded test specimens moulded as per ASTM D4703, Procedure C.

#### APPLICATIONS:

Overhead Water Tank, Storage Tank for Agriculture, Loft Tank, Litter Bin, Toy items, Road Blocks etc

**Typical Process Conditions:**

- Typical Oven Temp (°C) - 310 – 330

**Regulatory Information**

- Meets the requirements stipulated in standard IS: I0146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to IS 16738:2018 "Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals"
- 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.