



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 |
| Molded properties ** | | | |
| 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.

DISCLAIMER

The information contained herein may include typical properties and processing parameters of the grade or its typical performances when used in respective applications. The values given above are based on analysis of representative samples and not the actual product supplied. It is the customer's responsibility to inspect and test our grades in order to satisfy itself as to the suitability of the products for customers' particular application. The customer is solely responsible for all determinations regarding any use of material or product and any process in its area of interest. RIL assumes no obligation or liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of using any of the information or product given in this document. The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorized agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.