



# O35042

## LINEAR LOW DENSITY POLYETHYLENE

### ROTATIONAL MOULDING GRADE

O 35042, is a octene comonomer based Linear Low Density Polyethylene grade designed for rotational moulding applications. O 35042 can be used for producing special products like automotive components, diesel fuel tanks, chemical tanks, manholes, insulated fish crates and pallets. Due to the octene comonomer and medium density of resin, articles exhibit excellent toughness, impact resistance and Environmental Stress Crack Resistance (ESCR).

| Typical Characteristics*  |             |          |                 |
|---------------------------|-------------|----------|-----------------|
| Property                  | Test Method | Unit     | Typical Value** |
| Density (23°C)            | ASTM D1505  | g/cc     | 0.933           |
| MFI (190°C/2.16 kg)       | ASTM D1238  | g/10 min | 4.5             |
| Tensile Yield Strength    | ASTM D638   | MPa      | 15              |
| Ultimate Tensile Strength | ASTM D638   | MPa      | 27              |
| Elongation at Break       | ASTM D638   | %        | 950             |
| Flexural Modulus          | ASTM D790   | MPa      | 500             |
| Hardness                  | ASTM D2240  | Shore D  | 57              |
| Vicat Softening Point     | ASTM D1525  | °C       | 115             |
| Izod Impact Strength      | ASTM D256   | J/m      | 650             |

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Injection Moulded Specimen

#### Applications

Chemical storage, septic and general purpose tanks.

#### 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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