



# R35042

## LINEAR LOW DENSITY POLYETHYLENE ROTATIONAL MOULDING GRADE

R 35042 is a Medium Density Polyethylene grade designed for rotational moulding applications. R 35042 can be used for producing chemical tanks, water storage tanks, loft tanks milk cans and pallets. Due to the medium density of resin, articles exhibit good toughness, impact resistance and Environmental Stress Crack Resistance (ESCR).

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Density (23°C)	ASTM D1505	g/cc	0.935
MFI (190°C/2.16 kg)	ASTM D1238	g/10 min	4.2
Tensile Yield Strength	ASTM D638	MPa	14
Ultimate Tensile Strength	ASTM D638	MPa	25
Elongation at Break	ASTM D638	%	930
Flexural Yield Strength	ASTM D790	MPa	15
Flexural Modulus	ASTM D790	MPa	480
Hardness	ASTM D2240	Shore D	60
Vicat Softening Point	ASTM D1525	°C	116
Izod Impact Strength	ASTM D256	J/m	144

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Injection Moulding Specimen

### Applications

Overhead water tank, loft tank.

### 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.