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# O35042

## LOW DENSITY POLYETHYLENE OCTENE ROTATIONAL MOULDING GRADE

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O 35042, is a octene comonomer based Medium 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 Yield Strength	ASTM D790	MPa	17
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 : 10146-1982 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.