



Technical Data Sheet

UV STABILISED LINEAR MEDIUM DENSITY PE FOR ROTOMOULDING APPLICATION

GENERAL :

Indothene-LL LL36RA045UV is a Linear Medium Density Polyethylene produced by gas phase fluidised bed process using butene as comonomer. This grade is stabilised with appropriate quantity of HALS to give a long service with continuous outdoor exposure with or without blending of any carbon black.

Indothene-LL LL36RA045UV when pulverised into 20-30 mesh powder offers, good processability. This grade has very good Environmental Stress Crack Resistance (ESCR) and a combination of Hardness and Impact strength. This grade contains normal dose of AO and high dose of UV stabiliser.

Indothene-LL is the brand name of Linear Low Density Polyethylene manufactured and marketed by Indian Petrochemicals Corporation Ltd. adopting process know-how of M/s. BP.Chemicals, U.K.

FOOD CONTACT APPLICATIONS :

This grade meets the requirements of Indian Standard IS-10146-1982 on "Polyethylene for its safe use in contact with food stuffs, pharmaceuticals and drinking water". It also conforms to the positive list of constituents as approved in IS:10141:1982. The antioxidant content of the grade is <3000 ppm.

TYPICAL CHARACTERISTICS :

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	gm/10 min.	4.5
Density (23°C)	ASTM D 1505	gm/cm ³	0.936
Melting Range	ASTM D 2117	(°C)	123 - 125
Tensile Strength (Yield) ¹	ASTM D 638	MPa	18
Elongation (Yield)	ASTM D 638	%	20
Flexural Modulus ²	ASTM D 790	MPa	600
Izod Impact Strength (Notched) ³	ASTM D 256	J/m	250
ESCR (F-50, 10% Igepal)	ASTM D 1693	hrs.	> 350
Hardness	ASTM D 2240	Shore D	55
Vicat Softening Point	ASTM D 1525	°C	117

1. Compression moulded test specimen (2.0 mm thick)
2. Compression moulded test specimen (3.2 mm thick)
3. Injection moulded test specimen (3.2 mm thick)

APPLICATIONS : Indothene-LL LL36RA045UV is recommended for rotational moulding of

- Water storage and holding tanks, Loft tanks
- Chemical and agricultural tanks
- Shipping containers
- Kiosks, refuse bins and miscellaneous applications

PACKAGING :Indothene-LL LL36RA045UV is available in natural colour, pellet form in 25 Kg bags.