

# Indothene LL LL 36RA045 UV

Linear Low Density Polyethylene  
Reliance Industries Limited

Message:

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 continuos 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.

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.

General Information			
Additive	Unspecified stabilizer		
	UV stabilizer		
Features	Butene comonomer		
	High ESCR (Stress Cracking Resistance)		
	Impact resistance, high		
	Good UV resistance		
	Good stability		
	Good weather resistance		
	Compliance of Food Exposure		
	High hardness		
Uses	Agricultural water tank		
	Container		
	Water tank		
	Shipping container		
Appearance	Natural color		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	350	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield, 2.00 mm, Compression Molded)	18.0	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus (3.20 mm, Compression Molded)	600	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm, Injection Molded)	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	117	°C	ASTM D1525
Melting Temperature	123 - 125	°C	
Additional Information			

Enviro. Stress Crack Res, F50, 10% Igepal: > 350 hrs.

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