



LL36RA045UV

LINEAR LOW DENSITY POLYETHYLENE WITH UV ROTOMOULDING APPLICATION

LL36RA045UV is a Butene Comonomer based Linear Medium Density Polyethylene (LLDPE). 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. 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.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C / 2.16 kg)	ASTM D1238	gm/10 min	4.5
Density (23°C)	ASTM D1505	gm/cm ³	0.936
Tensile Strength at Yield ¹	ASTM D638	kg/cm ²	180
Elongation at Yield	ASTM D638	%	20
Flexural Modulus ²	ASTM D790	kg/cm ²	6,000
Notched Izod Impact Strength ³	ASTM D256	kg.cm/cm	25.0
ESCR (F-50, 10% Igepal)	ASTM D1693	hr	>350
Hardness	ASTM D2240	D	55
Vicat Softening Point	ASTM D1525	°C	117

*Typical Characteristics and not to be taken as specifications

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

UV stabilised grade for products requiring outdoor exposure.

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.

Reliance Industries Limited, Polymer Research and Technology Centre,

Swastik Mill Compound, V.N. Purav Marg, Chembur, Mumbai-400 071. Tel.: +91-22-6767 7000. E-mail: polymer_patsupport@ril.com Website: www.ril.com

• The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. • The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.