

RELENE® LL36RA045

Linear Low Density Polyethylene

Reliance Industries Limited

Message:

LL36RA045 is a Butene Comonomer based Linear Medium Density Polyethylene. This grade when blended with appropriate carbon black can withstand continuous exposure. LL36RA045 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 antioxidant.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Food Contact Acceptable		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	High Hardness		
Uses	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm³	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)	588	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

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