

RELENE® 46GP009

High Density Polyethylene

Reliance Industries Limited

Message:

Relene 46GP009 (PE:63) is a natural coloured grade for pipe extrusion and for pesticide bottles. It possesses bimodal molecular weight distribution, which improves processability. This grade meets the MFI, Density & Hydrostatic Strength requirements of material grade PE:63 as per IS 4984. When incorporated with adequate quantity of carbon black as specified in clause 5.2.3 of IS: 4984, Pipes will meet PE:63 requirements . This grade has excellent ESCR properties and suitable for pesticide bottles up to 1 litre capacity.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Appearance	Natural Color		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	< 1.1	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	24.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, Compression Molded	11	%	
Break, Compression Molded	> 500	%	

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Recommended distributors for this material

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