

RELENE® 46GP009UV

High Density Polyethylene

Reliance Industries Limited

Message:

HD46GP009UV is a natural pipe extrusion grade & possesses bimodal molecular weight distribution, which improves processability and mechanical properties of pipe.

46GP009UV is UV stabilized grade & is suitable for producing Cable ducts for Optical fibers and other general-purpose application. The grade is designated to sustain outdoor exposure of 12 months. Designation of 46GP009UV as per IS 7328-1992 is PE ELAN C45 T012 & also conforms to TEC generic requirements No. GR/CDS-08/02/Nov-2004.

General Information			
Additive	UV Stabilizer		
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	Good Processability		
	Good UV Resistance		
Uses	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	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.90	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
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	> 350	%	
Flexural Modulus - 1% Secant (Compression Molded)	750	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.0	°C	ASTM D648

Oxidation Induction Time ¹ (200°C)	> 30	min	ASTM D3985
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NOTE

1.	Cu Pan
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